

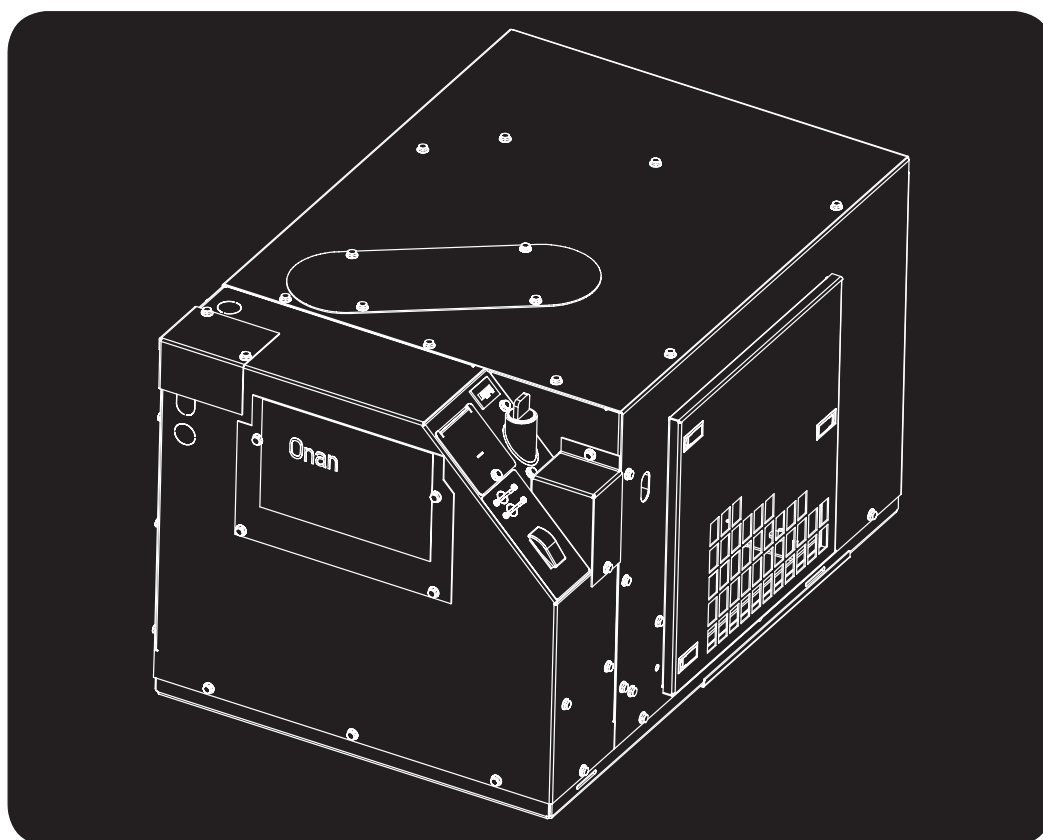
Onan

Commercial Mobile Power



Parts Catalog

Model HDKBB Spec A-B



MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Onan nameplate.

For handy reference, insert your nameplate information in the spaces below.

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

The following symbols are used in Onan manuals to alert users to the potentially dangerous conditions relating to maintenance of equipment and replacement of parts. Please read and observe.



This symbol warns of immediate hazards which will result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or product or property damage.

PRODUCT SAFETY PRECAUTIONS



Service and repair of Onan equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.



Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.



Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!



Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!

Introduction

This parts catalog applies to the standard generator sets listed below. Parts are arranged in groups of related items and each illustrated part is defined by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Using the model and specification number from your generator set nameplate, select parts that apply to your set. Right and left sides are determined by facing the engine end (front) of the set.

Generator Set Data Table

Model Identification	Fuel	Wiring Diagram	Voltage	Hertz	Phase
5.5HDKBB 2860A/B	Diesel	630-2298	120	60	1
5.5HDKBB 2861A/B	Diesel	630-2298	120/240	60	1
5.5HDKBB 2905A/B	Diesel	630-2298	120/240	60	3
5.0HDKBB 2862A/B	Diesel	630-2298	115/230	50	1
5.0HDKBB 2863A/B	Diesel	630-2298	230/400	50	3

* – The specification number denotes customer requested options or deviations from a standard (1A, 1B, etc.) model. The specification letter advances (A, to B, to C, etc.) with major manufacturing changes.

Index

AC Harness, **46 , 47**
AC, Harness, **46 , 47**
Adapter, Flywheel, **23**
Adapter, Oil Drain, **37**
Apparatus, Idle, **17**
Arm, Rocker, **10**

Baffle, Air, **32**
Ball, Crankshaft, **6**
Ball, Governor Gear, **26**
Ball, Starter Steel, **25**
Ball, Valve Seat, **14**
Bearing, Coolant Water Pump, **31**
Bearing, Crankshaft, **6**
Bearing, Drive Pulley, **23**
Bearing, Fuel Camshaft Ball, **26**
Bearing, Governor Carrier Ball, **18**
Bearing, Starter Ball, **25**
Belt, **35**
Belt, Drive, **23**
Block, Cylinder, **5**
Block, Terminal, **48**
Bolt, Flywheel, **23**
Box, Control, **43**
Bracket, Control, **44**
Bracket, Engine, **38**
Bracket, Exhaust, **40**
Bracket, Fuel Filter, **27**
Bracket, Generator, **38**
Bracket, Hose, **34**
Bracket, Lifting, **23**
Bracket, Radiator, **32**
Bracket, Rocker Arm, **10**
Brush, Block, **42**
Bulkhead, Fitting, **27**
Bush, Idle Gear, **7**
Bush, Piston Pin, **6**

Camshaft, **7**
Camshaft, Fuel, **26**
Cap, Cylinder Block, **5**
Cap, Cylinder Head, **9**
Cap, Elbow Joint, **13**
Cap, Fill, **33**
Cap, Idle Apparatus, **17**
Cap, Valve, **10**
Carrier, Governor, **18**
Case, Governor Ball, **26**
Case, Main Bearing, **8**
Circlip, Fuel Camshaft, **26**
Circlip, Piston Pin, **6**
Clamp, Air Cleaner, **29**
Clamp, Muffler Isolator, **40 , 41**
Clutch, Starter, **25**
Collar, Crankshaft, **6**
Collar, Idle Gear, **7**
Collar, Speed Control, **15**
Collet, Valve Spring, **10**

Components, Coolant Water Pump, **31**
Components, Injection Pump, **21**
Components, Nozzle Holder, **12**
Components, Starter, **25**
Control, **44**
Coolant System, **32**
Cord, Glow Plug, **11**
Coupling, Flywheel, **23**
Cover, Access Panel (LH), **41**
Cover, Air Cleaner, **29**
Cover, Cylinder Block Hole, **5**
Cover, Cylinder Head, **13**
Cover, Enclosure, **43**
Cover, Enclosure Font, **41**
Cover, Enclosure Left Hand, **41**
Cover, Enclosure Right Hand, **41**
Cover, Enclosure Top, **41**
Cover, Fuel Camshaft, **26**
Cover, Governor, **18**
Cover, Main Bearing Case, **8**
Cover, Oil Fill, **13**
Cover, Service, **38**
Cover, Thermostat, **30**
Crankshaft, **6**

Duct, Inlet, **32**
Duct, Radiator, **32**

Elbow, 90 Degree Coolant Drain, **5**
Element, Air Cleaner, **29**
Element, Breather, **13**
Enclosure, **41**
Endbell, **42**
Engine, Replacement, **5**
Exhaust System, **40**

Fan, **42**
Fan, Generator, **42**
Filter, Fuel, **27**
Filter, Oil, **14**
Flange, Coolant Water Pump, **31**
Flange, Injection Pump Sleeve, **21**
Flange, Water, **30**
Flywheel, **23**
Fuel System, **27**

Gasket, Air Bleeder Screw, **11**
Gasket, Air Cleaner, **29**
Gasket, Coolant Water Pump, **31**
Gasket, Cylinder Block Hole Cover, **5**
Gasket, Cylinder Block Plug, **5**
Gasket, Cylinder Head, **9**
Gasket, Cylinder Head Cover, **13**
Gasket, Cylinder Head Nut, **13**
Gasket, Delivery Valve, **21**
Gasket, Exhaust Muffler, **40**
Gasket, Exhaust Out, **40**
Gasket, Gearcase, **14**

Index

- Gasket, Idle Apparatus, **17**
- Gasket, Injection Pump, **21**
- Gasket, Injector Nozzle, **11**
- Gasket, Inlet Manifold, **28**
- Gasket, Main Bearing Case, **8**
- Gasket, Oil Pump, **5**
- Gasket, Speed Control Plate, **15**
- Gasket, Thermostat, **30**
- Gasket, Water Flange, **30**
- Gauge, Oil Pressure, **54**
- Gauge, Water Temperature, **54**
- Gear, Cam, **7**
- Gear, Crankshaft, **6**
- Gear, Idle, **7**
- Gear, Injection Pump, **26**
- Gear, Oil Pump Drive, **5**
- Gear, Ring, **23**
- Gearcase, **14**
- Generator, **42**
- Governor, **18**
- Grommet, Generator Stator, **42**
- Guide, Valve, **9**

- Harness Location, Engine, **49**
- Harness Location, Extension (Or Pigtail), **49**
- Harness Location, Remote Panel, **49**
- Harness, Adapter, **50**
- Harness, Battery, **48**
- Harness, Control, **45**
- Harness, Remote, **50**
- Harness, Remote Gauge Panel, **54**
- Harness, Remote Panel, **50**
- Harness, Remote Panel (W/Hourmeter), **52**
- Harness, Remote Panel (W/Switch), **51**
- Harness, Remote Panel (W/Volt Meter), **53**
- Harnesses, Remote, **50**
- Head, Cylinder, **9**
- Holder, Delivery Valve, **21**
- Holder, Fuse, **45**
- Holder, Nozzle, **11**
- Holder, Starter Brush, **25**
- Hook, Engine, **9**
- Hose, Air, **33**
- Hourmeter, **43** , **52**
- Housing, Air Cleaner, **29**
- Hub, Flywheel Flex Coupling, **23**

- Impeller, Coolant Water Pump, **31**
- Indicator Assy, Oil , **36**
- Indicator, Oil, **36**
- Indicator, Oil Fill, **36**
- Intake System, **29**
- Isolator, Muffler, **40** , **41**
- Isolator, Vibration, **38**

- Joint, Breather Hose Elbow, **13**
- Joint, Injection Pump Eye, **19**
- Joint, Oil Filter Pipe, **14**

- Key, Camshaft Feather, **7**
- Key, Crankshaft Feather, **6**
- Key, Fuel Camshaft Feather, **26**
- Key, Oil Pump Feather, **5**
- Kit, Muffler, **40**
- Kit, Nozzle Holder, **11**
- Kit, Remote Control Panel (W/Hourmeter), **52**
- Kit, Remote Control Panel (W/Switch), **51**
- Kit, Remote Control Panel (W/Volt Meter), **53**
- Kit, Remote Gauge Panel, **54**

- Label, Remote Panel (Genset Operation), **53**
- Label, Remote Panel (W/ Volt Meter) (Start/Preheat), **53**
- Label, Remote Panel (W/Gauges) (Diesel Genset), **54**
- Label, Remote Panel (W/Gauges) (M14, M13, M12), **54**
- Label, Remote Panel (W/Hour Meter) (Start/Preheat), **52**
- Label, Remote Panel (W/Switch) (Start/Preheat), **51**
- Labels, **55**
- Lever, Engine Stop, **17**
- Lever, Fork, **16**
- Lever, Governor, **15**
- Lever, Speed Control, **15**
- Lever, Speed Control Engine Stop, **15**
- Line, Fuel Injection Pump, **27**
- Location, Harness, **49**

- Manifold, Exhaust, **39**
- Manifold, Inlet, **28**
- Meter, Running Time, **54**
- Meter, Volt, **53**
- Meter, Volt (M14), **54**
- Muffler, Exhaust, **40**

- Neck, Fill, **33**
- Nozzle, **11**
- Nozzle, Injection, **12**

- O'Ring, Crankshaft, **6**
- O'Ring, Cylinder Block, **5**
- O'Ring, Cylinder Head, **9**
- O'Ring, Gearcase, **14**
- O'Ring, Generator Pulley, **23**
- O'Ring, Generator Rotor, **42**
- O'Ring, Injection Pump, **21**
- O'Ring, Oil Fill Cover, **13**
- O'Ring, Speed Control, **15**
- O'Ring, Starter, **25**

- Pan, Drip, **38**
- Pan, Oil, **37**
- Panel, Access, **41**
- Panel, Air Baffle, **41**
- Panel, Control, **43**
- Panel, Remote (W/Gauges), **54**
- Panel, Remote (W/Hour Meter), **52**
- Panel, Remote (W/Switch), **51**
- Panel, Remote (W/Volt Meter), **53**
- Pin, Cylinder Block Pipe, **5**

Index

Pin, Cylinder Block Straight, **5**
Pin, Fork Lever Spring, **16**
Pin, Injection Pump, **21**
Pin, Main Bearing Case, **8**
Pin, Piston, **6**
Pin, Rocker Arm Spring, **10**
Pin, Speed Control Spring, **15**
Pin, Start Spring, **14**
Pinion, Starter, **25**
Pipe, Coolant Water Return, **31**
Pipe, Exhaust Muffler, **40**
Pipe, Injection, **11**
Pipe, Overflow, **11**
Pipe, Water Return, **30**
Piston, **6**
Plate, Breather, **13**
Plate, Injection Pump, **21**
Plate, Speed Control, **15**
Plug, Cylinder Block, **5**
Plug, Cylinder Head, **9**
Plug, Gearcase, **14**
Plug, Glow, **11**
Plug, Water Flange, **30**
Plunger, Injection Pump, **21**
Pulley, Drive, **23**
Pulley, Fan, **35**
Pulley, Generator, **23**
Pulley, Water Pump, **35**
Pump, Coolant Water, **31**
Pump, Fuel, **27**
Pump, Injection, **19**
Pump, Oil, **5**

Rack, Injection Pump Control, **21**
Radiator, **32**
Relay, 12V SPDT, **44**
Resonator, Intake, **29**
Retainer, Starter, **25**
Retainer, Valve Spring, **10**
Ring, Governor Rotor Retaining, **18**
Ring, Idle Gear Snap, **7**
Ring, Piston, **6**
Rod, Connecting, **6**
Rod, Nozzle Holder Push, **12**
Rod, Push, **7**
Roller, Starter Clutch, **25**
Rotor, **42**
Rotor, Governor, **18**

Seal, Coolant Water Pump Mechanical, **31**
Seal, Gearcase Oil, **14**
Seal, Main Bearing Case Oil, **8**
Seal, Speed Control Oil, **15**

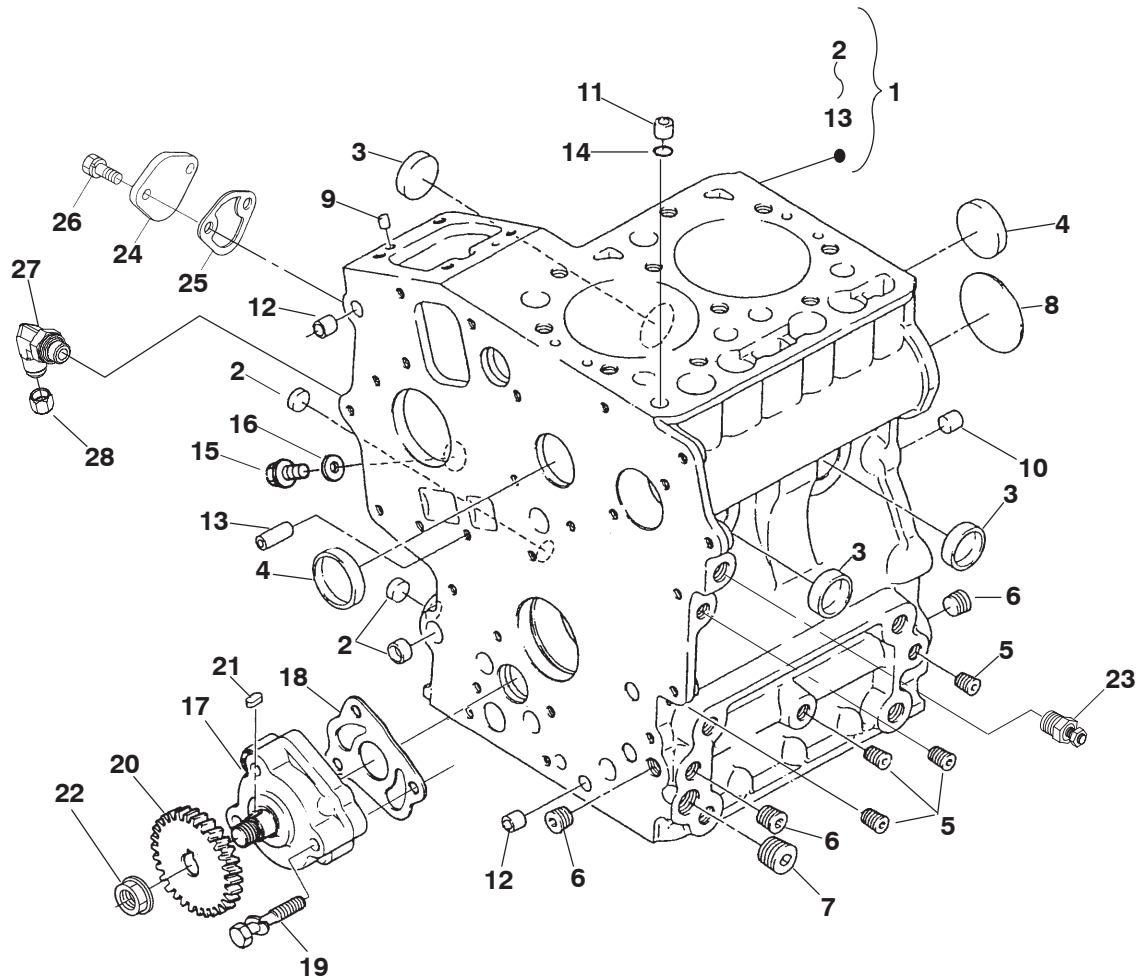
Seal, Valve Stem, **10**
Seat, Injection Pump Spring, **21**
Seat, Valve, **14**
Sender, Water Temperature, **9**
Shaft, Fork Lever, **16**
Shaft, Governor Lever, **15**
Shaft, Idle Gear, **7**
Shaft, Rocker Arm, **10**
Shield, Breather Oil, **13**
Shim, Injection Pump, **19**
Shim, Injection Pump Components, **21**
Sleeve, Crankshaft, **6**
Sleeve, Governor, **26**
Sleeve, Injection Pump Control, **21**
Slinger, Oil, **6**
Spacer, Nozzle Holder, **12**
Spring, Delivery Valve, **21**
Spring, Fork Level Governor, **16**
Spring, Governor, **16 , 18**
Spring, Injection Pump Plunger, **21**
Spring, Nozzle Holder, **12**
Spring, Rocker Arm, **10**
Spring, Starter, **25**
Spring, Valve, **10**
Spring, Valve Seat, **14**
Starter, **24**
Stator, Generator, **42**
Stator, Governor, **18**
Stopper, Camshaft, **7**
Stopper, Fuel Camshaft, **26**
Strap, Bond, **48**
Switch, Oil Pressure, **5**
Switch, Remote Control Panel Rocker, **51**
Switch, Remote Control Panel W/Meter Rocker, **52**
Switch, Remote Control Panel W/Voltmeter Rocker, **53**
Switch, Remote Gauge Panel Rocker, **54**
Switch, Starter Magnetic, **25**

Tank, Coolant, **32**
Tappet, Camshaft, **7**
Tappet, Injector Pump, **21**
Tensioner, Belt, **23**
Thermostat, Water, **30**
Transformer, (Three Phase), **44**
Transformer, Bracket, **44**
Tube, Oil, **36**

Valve, **10**
Valve, Delivery, **21**
Valve, Oil Drain Ball, **37**

Wire, Injection Pump Retainer, **21**

Cylinder Block

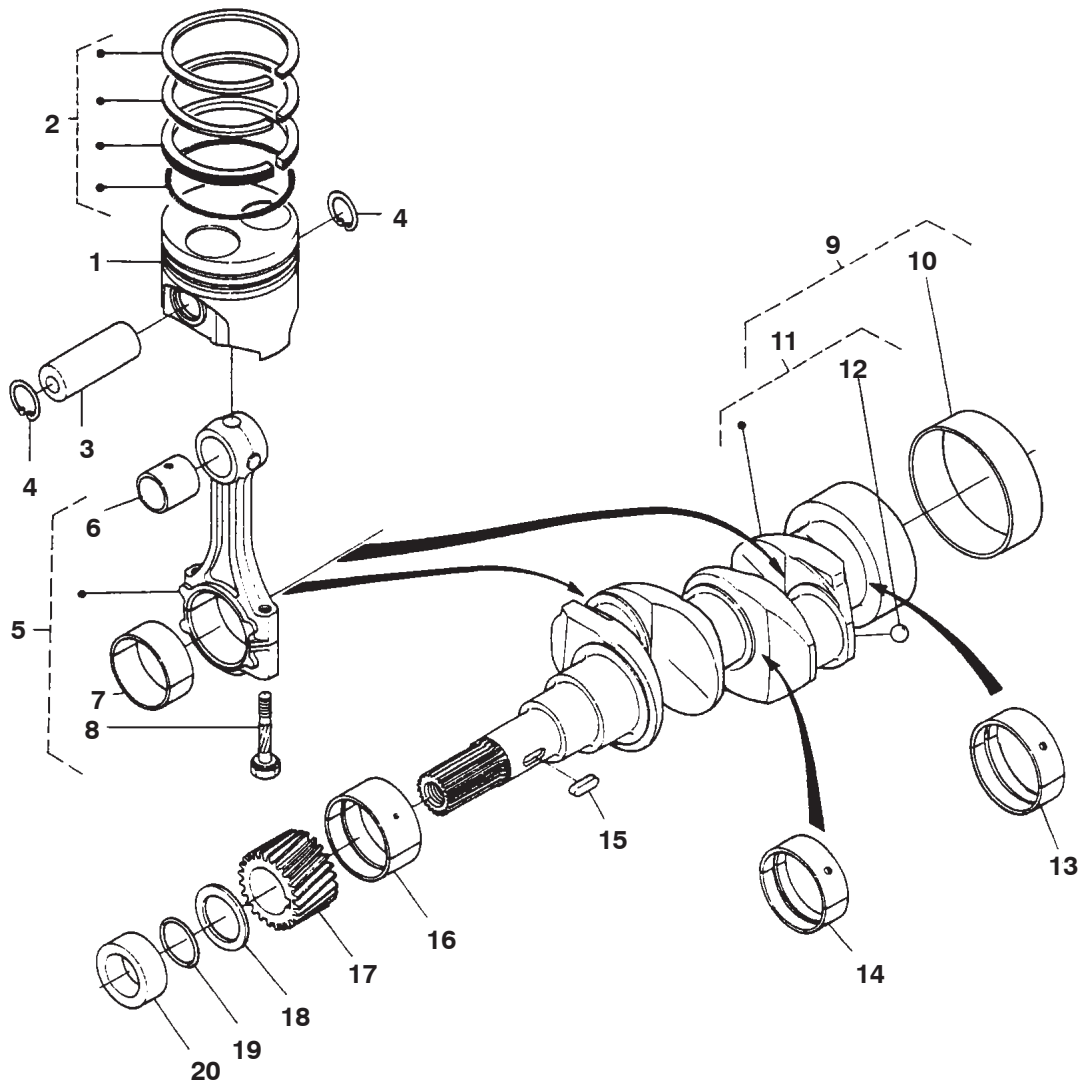


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	100-3603	1	Engine, Replacement	17	185-5412	1	Pump, Oil
1	184-0045	1	Block Assy, Cylinder (Includes Parts Marked *)	18	185-5413	1	Gasket, Oil Pump
2	185-5482	3	*Cap, Sealing	19	185-5491	3	Bolt
3	185-5483	3	*Cap, Sealing	20	185-5414	1	Gear, Oil Pump Drive
4	185-5484	2	*Cap, Sealing	21	185-5415	1	Key, Feather
5	185-2188	4	*Plug	22	185-5416	1	Nut, Flange
6	185-2233	3	*Plug	23	185-5492	1	Switch, Oil Pressure
7	185-2234	1	*Plug	24	185-5798	1	Cover
8	185-5485	1	*Plug, Expansion	25	185-6919	1	Gasket, Hole Cover
9	185-5486	2	*Pin, Straight	26	185-2388	2	Bolt
10	185-5487	2	*Pin, Straight	27	502-1359	1	Elbow, 90° Coolant Drain
11	185-2094	1	*Pin, Pipe	28	502-1360	1	Nut, Cap
12	185-2115	2	*Pin, Pipe				
13	185-5488	2	*Pin, Pipe				
14	185-2095	1	O'Ring				
15	184-0023	1	Plug				
16	184-0014	1	Gasket				

* - Parts Included in Cylinder Block Assy.

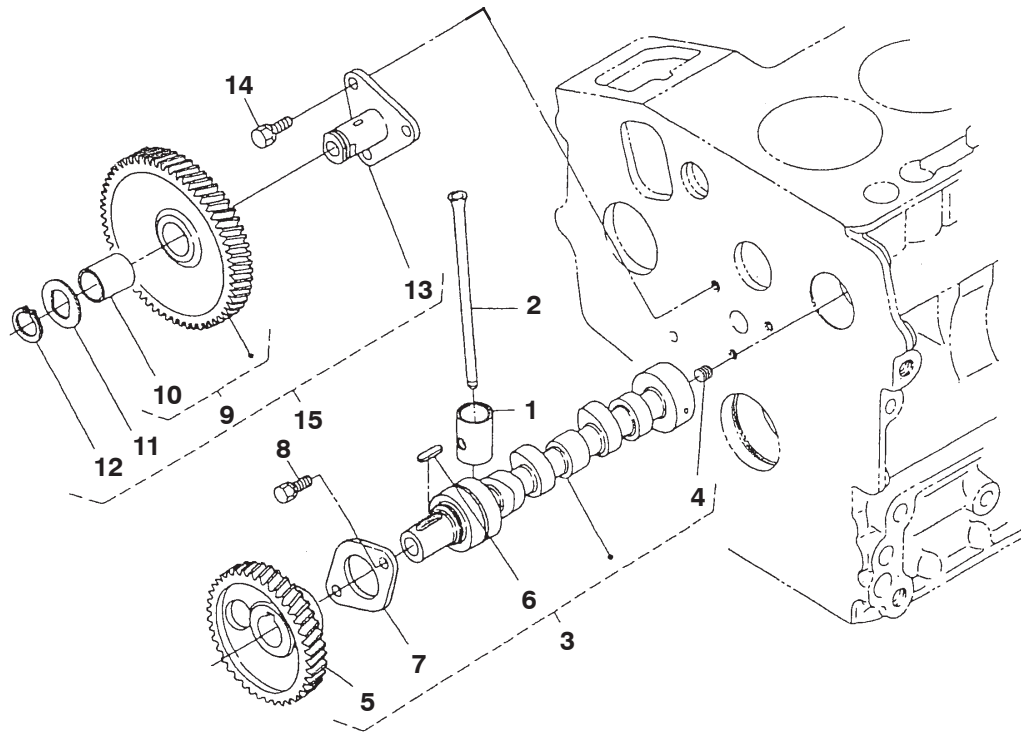
+ - Parts Included in Isolated Ground Kit Listed on Relay Page.

Piston and Crankshaft



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0032	2	Piston	11	184-0034	2	Crankshaft (Includes Ball)
	184-0033	2	Standard	12	185-5575	2	Ball
2	184-0030	2	Ring Assy, Piston	13	185-5580	1	Bearing
	184-0031	2	Standard		185-5356	1	Standard
3	185-5568	2	+0.50mm		185-5357	1	-0.20mm
4	185-2016	2	Pin, Piston		185-5361	1	-0.40mm
5	185-5569	2	Circlip, Piston Pin	14	185-5581	1	Bearing
6	185-5358	2	Rod Assy, Connecting (Includes Bush, Bolt, and Bearing)		185-5360	1	Standard
7	185-5571	2	Bush, Piston Pin		185-5361	1	-0.20mm
	185-5572	2	Bearing	15	185-2353	1	-0.40mm
	185-5573	2	Standard	16	185-5577	1	Key, Feather
8	185-5570	2	Bearing		185-5578	1	Bearing
9	184-0046	2	Standard		185-5579	1	Standard
10	185-2033	2	-0.20mm		185-5576	1	-0.20mm
		2	-0.40mm	17	185-5583	1	-0.40mm
		4	Bolt, Connecting Rod	18	184-0021	1	Gear
		1	Crankshaft Assy (Includes Sleeve, Crankshaft and Ball)	19	185-7407	1	Slinger, Oil
		1	Sleeve	20		1	O'Ring
							Collar, Crankshaft

Camshaft

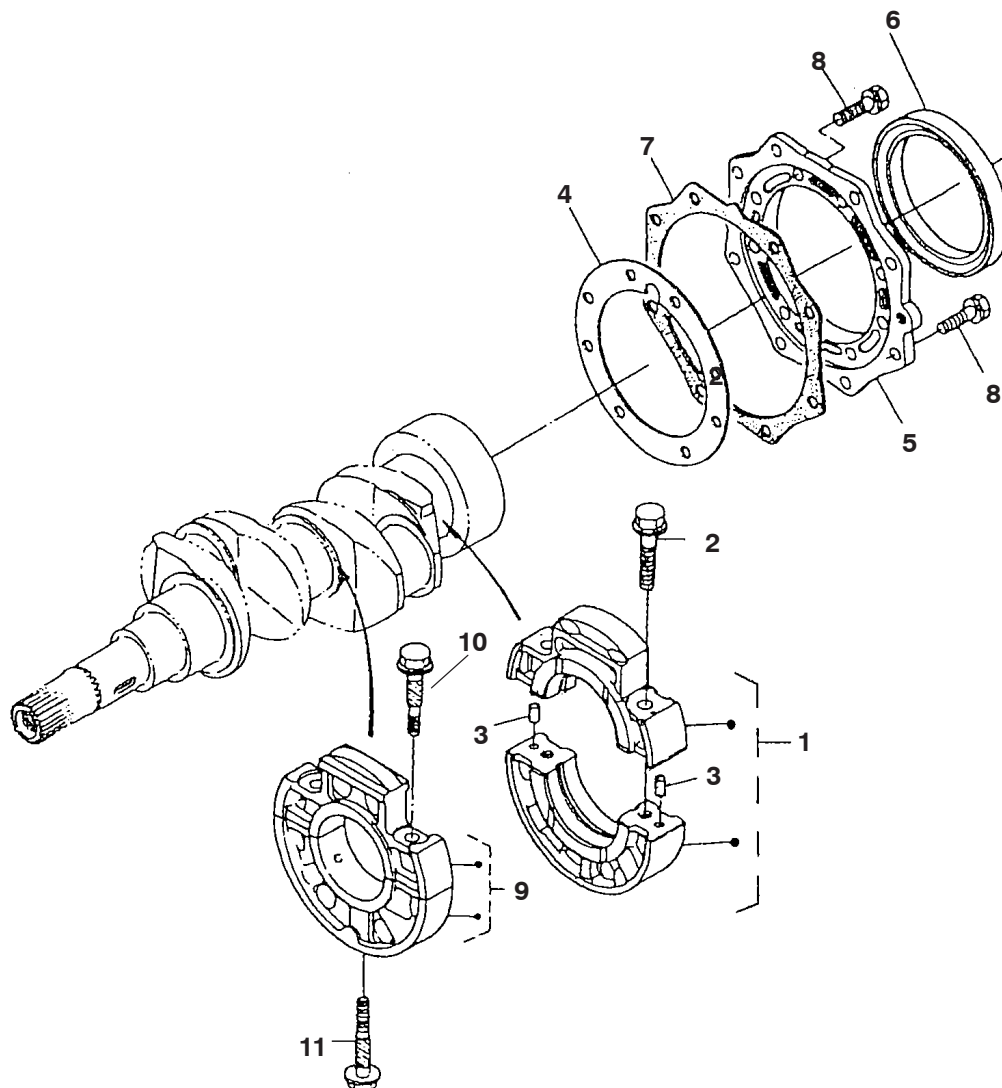


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5554	4	Tappet	11	185-5563	1	+ Collar, Idle Gear
2	184-0028	4	Rod, Push	12	185-5564	1	+ Ring, Snap
3	184-0029	1	Camshaft Assy (Includes Parts Marked *)	13	185-5565	1	+ Shaft, Idle Gear
4	185-5558	1	*Screw, Set	14	185-2387	3	Bolt
5	185-7075	1	*Gear, Cam	15	184-0040	1	Gear, Idle (Includes Parts Marked +)
6	185-5560	1	*Key, Feather				
7	185-5561	1	*Stopper, Camshaft				
8	185-2386	2	Bolt				
9	185-5562	1	+ Gear, Idle (Includes Bush)				
10	185-7385	1	+ Bush				

* - Parts Included in Camshaft Assy.

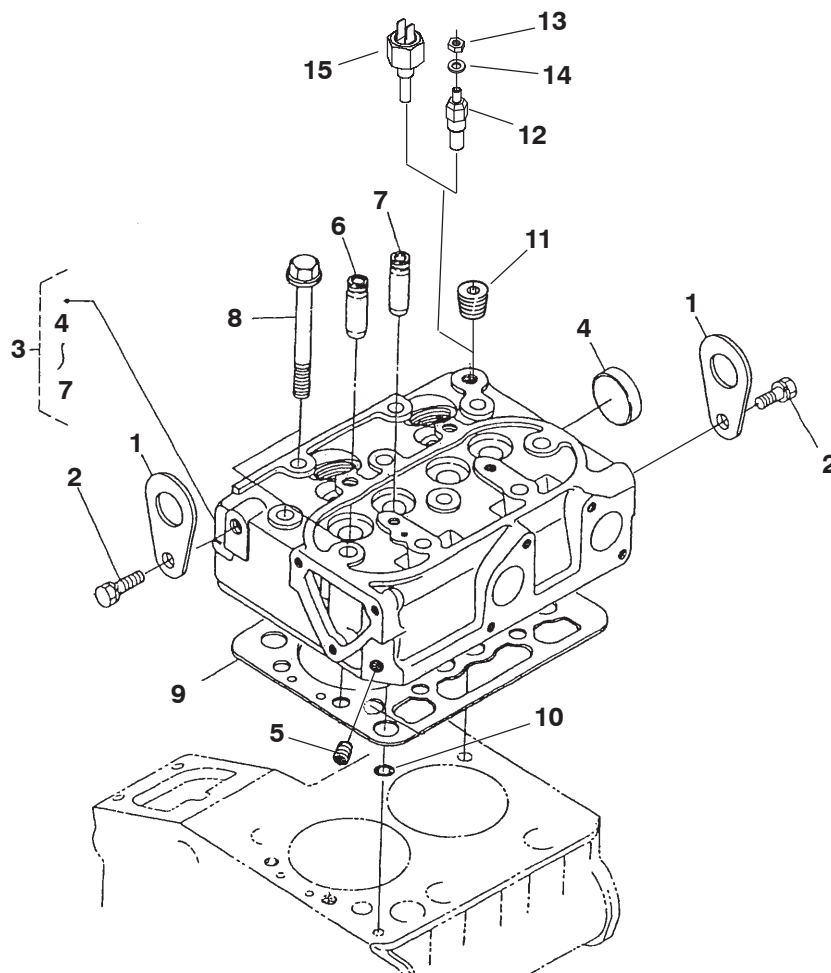
+ - Parts Included in Idle Gear Assy.

Main Bearing Case



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0027	1	Case, Main Bearing (Includes Pins)	6	185-5437	1	Seal, Oil
2	185-6105	2	Bolt, Flange	7	185-7383	1	Gasket
3	184-0022	2	Pin, Straight	8	185-2559	16	Bolt
4	185-5438	1	Gasket, Bearing Case	9	185-5517	1	Case, Main Bearing
5	185-5516	1	Cover, Bearing Case	10	185-5515	2	Bolt, Bearing Case
				11	185-5519	1	Bolt, Bearing Case

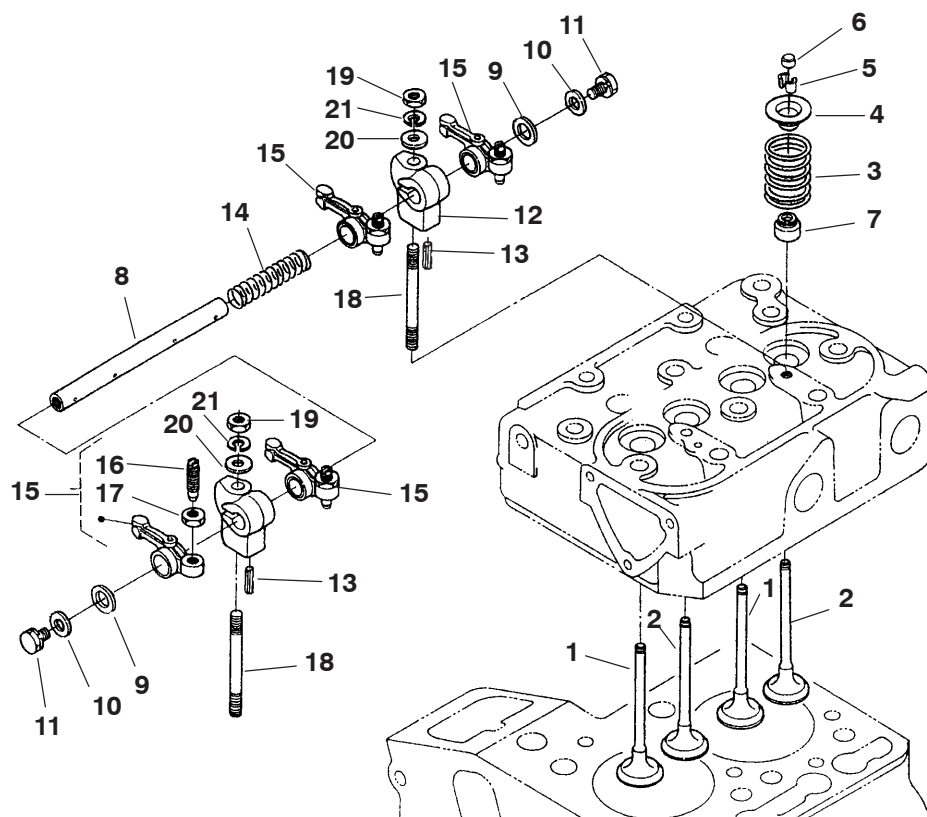
Cylinder Head



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2414	2	Hook, Engine	11	185-5502	1	Plug
2	185-2399	2	Bolt	12	193-0318	1	Sender, Water Temperature (Includes Nut and Washer)
3	184-0024	1	Head, Cylinder (Includes Cap, Plug and Guides)	13	871-0010	1	Nut, Hex Brass (10-32)
4	185-2411	1	Cap, Sealing	14	526-0049	1	Washer, Brass Flat (#10) (Standard Ground)
5	185-2188	1	Plug	15	193-0491	1	*Sender, Water Temperature
6	185-5500	2	Guide, Inlet Valve				
7	185-5501	2	Guide, Exhaust Valve				
8	185-5503	1	Bolt, Cylinder Head				
9	184-0025	1	Gasket, Cylinder Head				
10	185-2095	1	O'Ring				

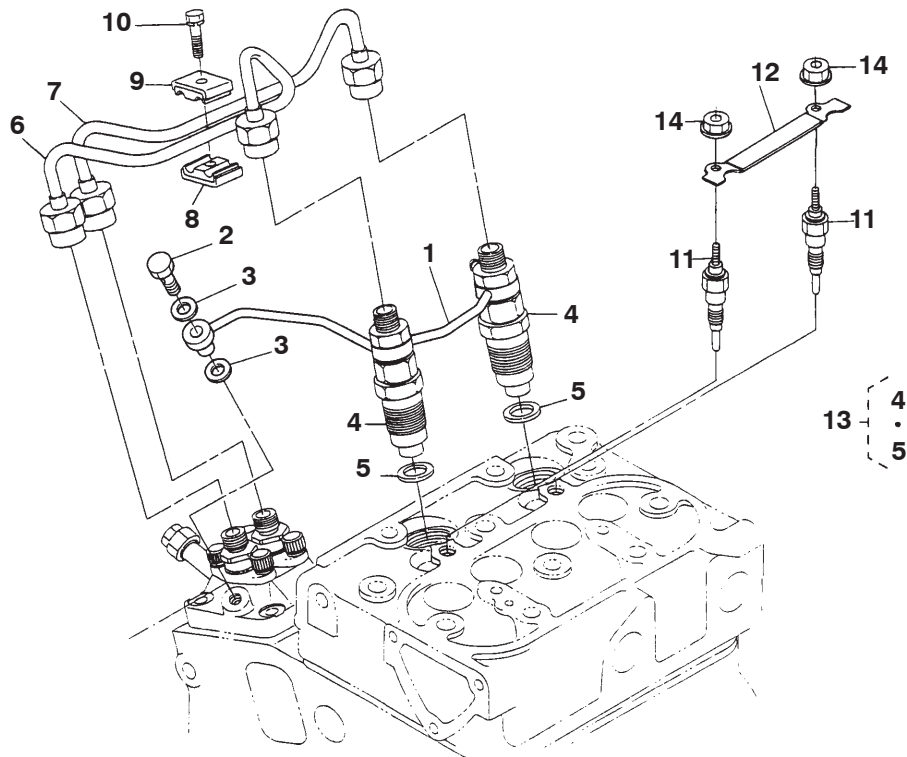
* - Part Included in Isolated Ground Kit Listed on Relay (Isolated Ground) Page.

Rocker Arm



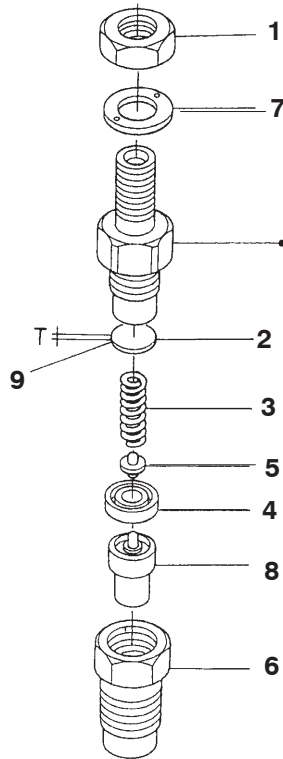
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5537	2	Valve, Inlet	12	185-5546	2	Bracket, Rocker Arm
2	185-5538	2	Valve, Exhaust	13	185-2351	2	Pin, Spring
3	185-5539	4	Spring, Valve	14	185-5550	1	Spring, Rocker Arm
4	185-5540	4	Retainer, Spring	15	185-5551	4	Arm Assy, Rocker
5	185-5541	4	Collet, Valve Spring	16	185-5552	4	Screw, Adjusting
6	185-5793	4	Cap, Valve	17	185-5553	4	Nut
7	185-5348	4	Seal, Valve Stem	18	185-5547	2	Stud
8	185-7394	1	Shaft, Rocker Arm	19	185-4255	2	Nut
9	185-7086	2	Washer	20	185-2376	2	Washer, Plain
10	185-7395	2	Washer, Plain	21	185-2380	2	Washer, Spring
11	185-2386	2	Bolt				

Nozzle Holder



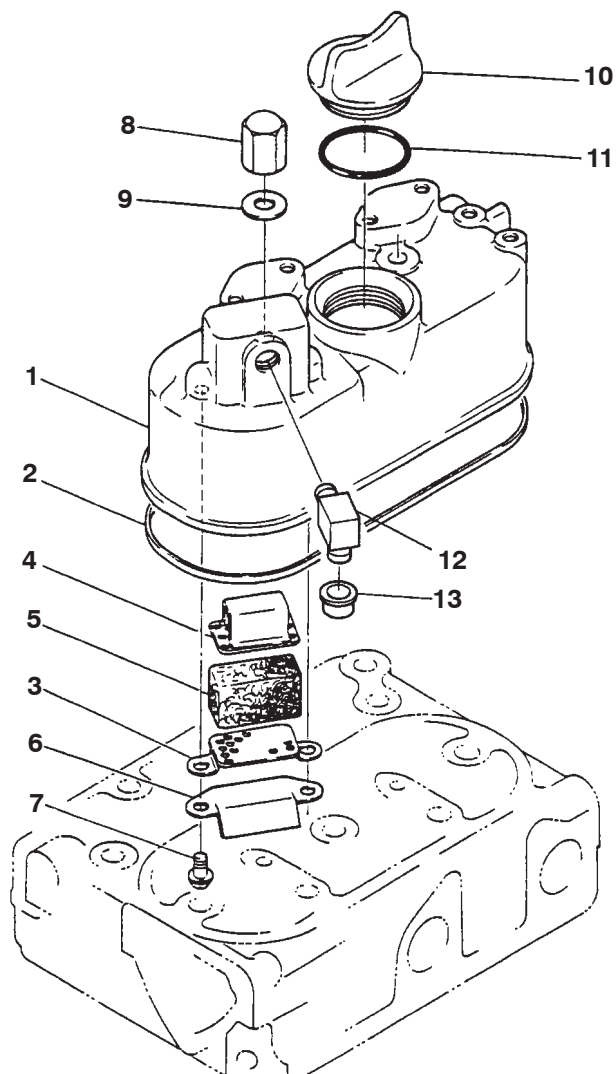
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0062	1	Pipe Assy, Overflow	9	185-5613	1	Clamp, Top Pipe
2	185-7082	1	Screw, Air Bleeder	10	185-2385	1	Screw, Pan Head Machine
3	185-2284	2	Gasket	11	185-5421	2	Plug, Glow (HR5)
4	185-6738	2	Holder, Nozzle	12	185-5614	1	Cord, Glow Plug
5	185-5337	2	Gasket	13	184-0035	1	Kit, Nozzle Holder (Includes Nozzle Holder and Gasket)
6	184-0041	1	Pipe, Injection	14	185-5615	2	Nut, Flange
7	184-0042	1	Pipe, Injection				
8	185-5612	1	Clamp, Bottom Pipe				

Nozzle Holder Components



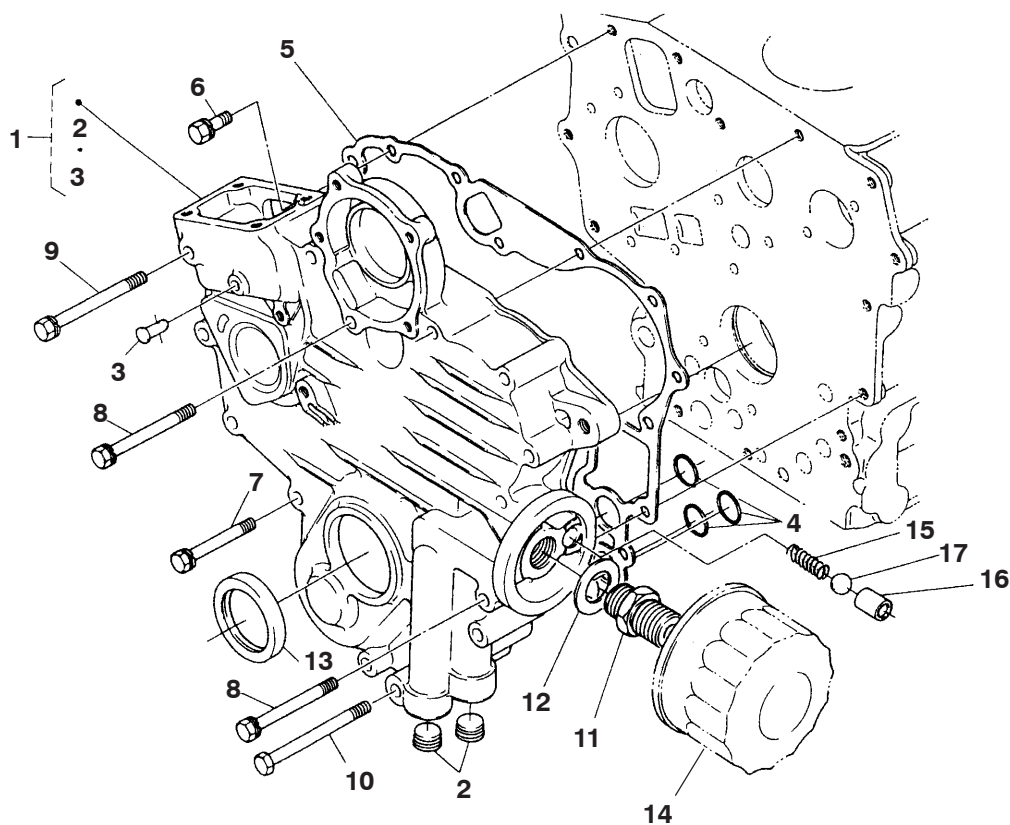
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-6738	1	Holder Assy, Nozzle		185-5381	2	1.325 mm
1	185-5616	2	Nut, Hex		185-5382	2	1.350 mm
2	185-5364	2	Washer, Adjusting		185-5383	2	1.375 mm
3	185-5617	2	Spring		185-5384	2	1.400 mm
4	185-5618	2	Spacer		185-5385	2	1.425 mm
5	185-5619	2	Rod, Push		185-5386	2	1.450 mm
6	185-6825	2	Nut, Nozzle		185-5387	2	1.475 mm
7	185-5621	2	Washer		185-5388	2	1.500 mm
8	185-5622	2	Nozzle		185-5389	2	1.525 mm
9	185-5363	2	Washer Assy, Adjusting		185-5390	2	1.550 mm
			(Includes all of the following:		185-5391	2	1.575 mm
	185-5364	2	0.900 mm		185-5392	2	1.600 mm
	185-5365	2	0.925 mm		185-5393	2	1.625 mm
	185-5366	2	0.950 mm		185-5394	2	1.650 mm
	185-5367	2	0.975 mm		185-5395	2	1.675 mm
	185-5368	2	1.000 mm		185-5396	2	1.700 mm
	185-5369	2	1.025 mm		185-5397	2	1.725 mm
	185-5370	2	1.050 mm		185-5398	2	1.750 mm
	185-5371	2	1.075 mm		185-5399	2	1.775 mm
	185-5372	2	1.100 mm		185-5400	2	1.800 mm
	185-5373	2	1.125 mm		185-5401	2	1.825 mm
	185-5374	2	1.150 mm		185-5402	2	1.850 mm
	185-5375	2	1.175 mm		185-5403	2	1.875 mm
	185-5376	2	1.200 mm		185-5404	2	1.900 mm
	185-5377	2	1.225 mm		185-5405	2	1.925 mm
	185-5378	2	1.250 mm		185-5406	2	1.950 mm
	185-5379	2	1.275 mm				
	185-5380	2	1.300 mm				

Cylinder Head Cover



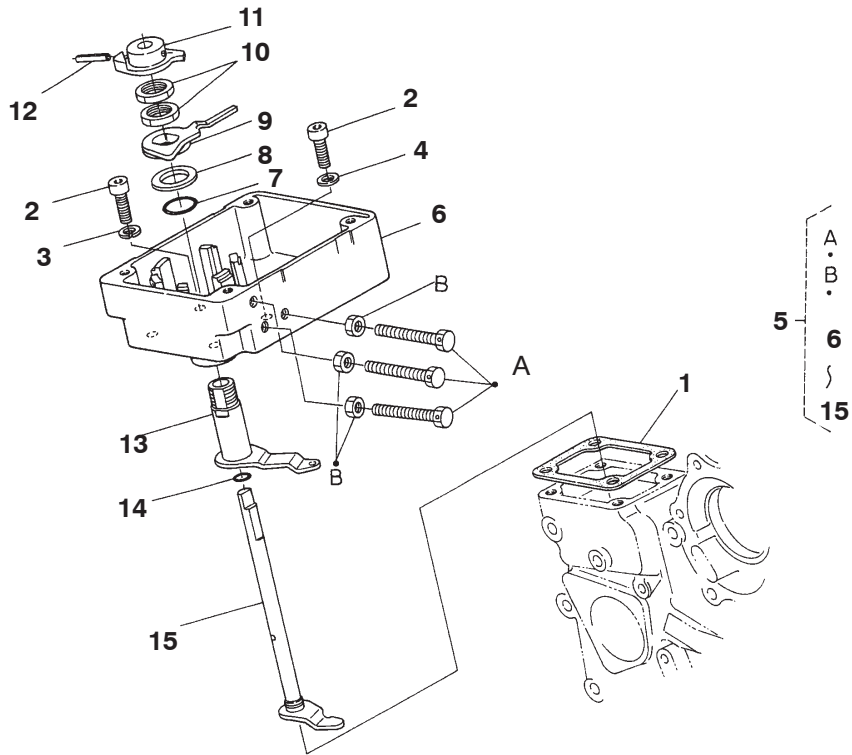
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5527	1	Cover, Cylinder Head	8	185-5529	1	Nut
2	185-5528	1	Gasket, Cylinder Head Cover	9	185-2284	1	Gasket
3	185-5521	1	Plate, Breather Element	10	185-5407	1	Cover, Oil Fill
4	185-5522	1	Plate, Breather Element	11	185-7426	1	O'Ring
5	185-5523	1	Element, Breather	12	184-0065	1	Joint
6	185-5524	1	Shield, Breather Oil	13	185-6981	1	Cap
7	185-5747	2	Screw				

Gearcase



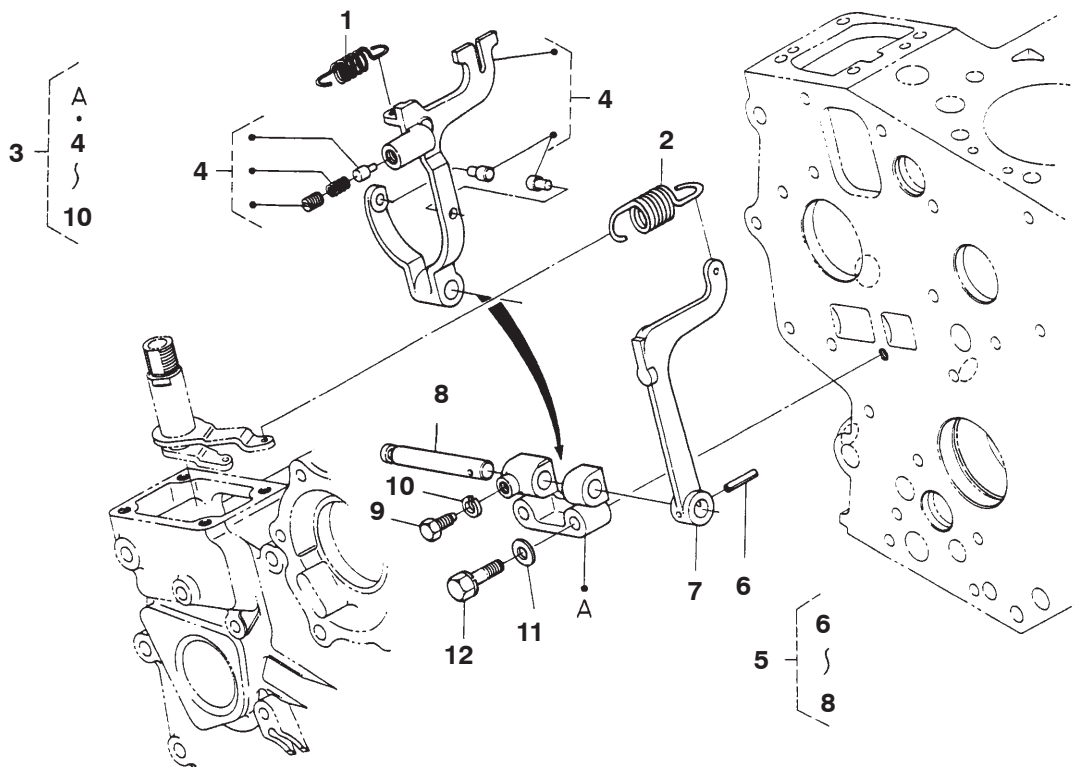
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0043	1	Gearcase (Includes Plugs and Pin)	9	185-2397	1	Bolt
2	185-5505	2	Plug	10	185-2398	1	Bolt
3	185-5506	1	Pin, Start Spring	11	185-2124	1	Joint, Pipe
4	184-0015	3	O'Ring	12	185-5508	1	Washer, Plain
5	185-7382	1	Gasket, Gearcase	13	185-5410	1	Seal, Oil
6	185-2389	3	Bolt	14	185-7444	1	Filter, Oil
7	185-7069	10	Bolt	15	185-5509	1	Spring
8	185-5507	2	Bolt	16	185-5510	1	Seat, Valve
				17	185-5511	1	Ball

Speed Control Plate



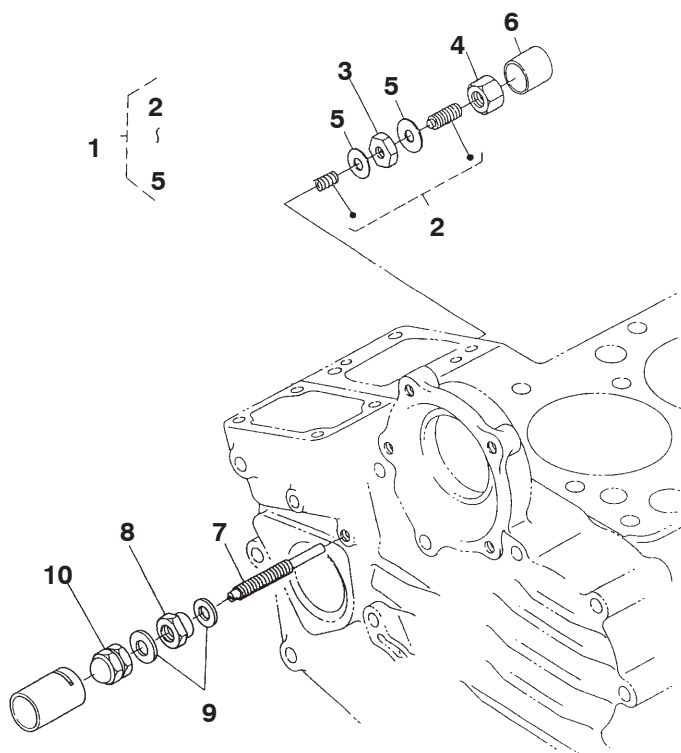
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5342	1	Gasket	9	184-0056	1	*Lever, Speed Control
2	184-0013	4	Screw, Hex Head Cap W/Lock Washer (M6 x 18mm)	10	185-5693	2	*Nut, Jam Hex
3	185-2380	2	Washer, Spring	11	184-0059	1	*Lever, Engine Stop
4	185-2284	2	Seal, Oil	12	185-5696	1	*Pin, Spring
5	185-7267	1	Plate Assy, Speed Control (Includes Parts Marked *)	13	184-0053	1	*Lever, Governor
6	184-0055	1	*Plate, Speed Control	14	184-0017	1	*O'Ring
7	184-0019	1	*O'Ring	15	184-0060	1	*Shaft, Lever
8	184-0057	1	*Collar	* - Parts Included in Speed Control Plate Assy.			

Fork Lever



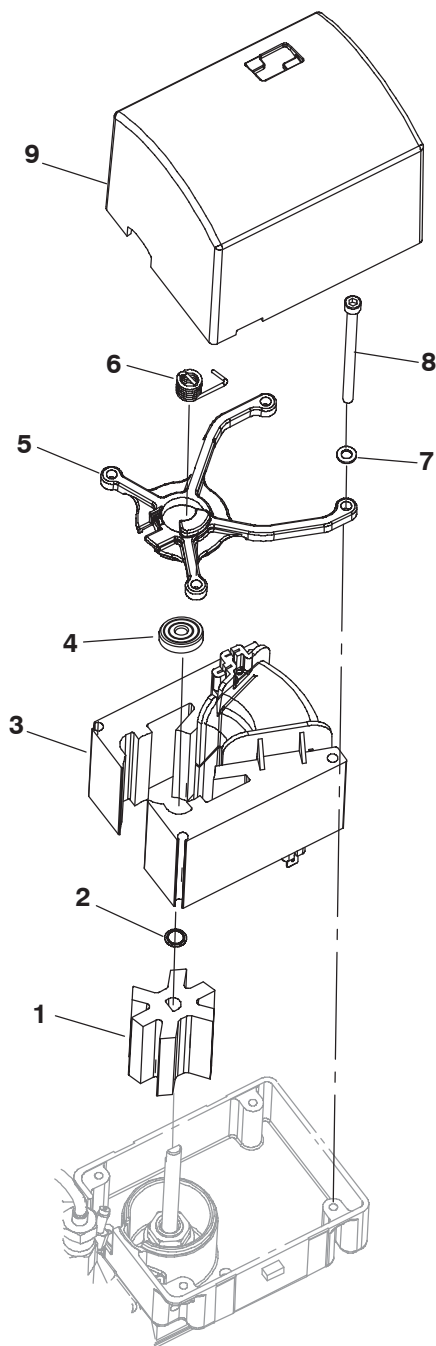
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5698	1	Spring, Start	7	185-5702	1	*Lever, Outer Fork
2	184-0054	1	Spring, Governor	8	185-5703	1	*Shaft
3	185-7079	1	Lever Assy, Fork (Includes Parts Marked *)	9	185-2173	1	*Bolt
4	184-0052	1	*Lever, Inner Fork	10	185-6999	1	*Washer, Spring Lock
5	185-5701	1	*Lever Assy, Outer Fork (Includes Pin, Fork Lever, and Shaft)	11	185-5966	2	Washer, Plain
6	185-5696	1	*Pin, Spring	12	185-2393	2	Bolt
				* - Parts Included in Fork Lever Assy.			

Engine Stop Lever



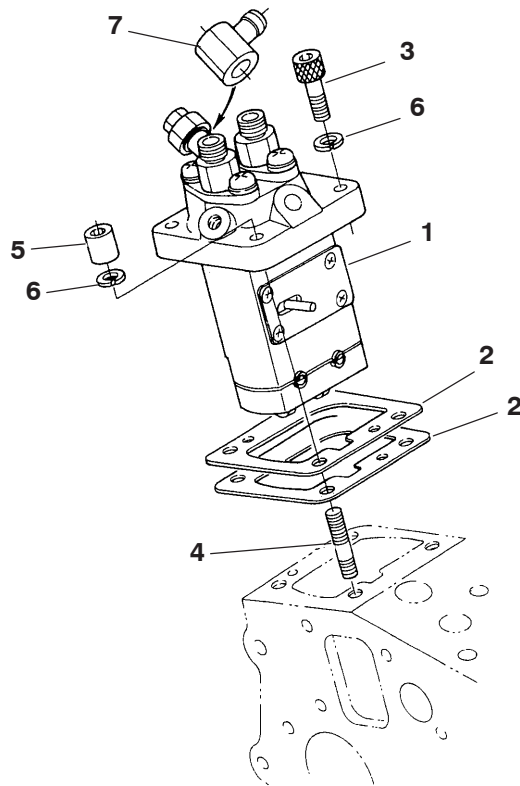
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5679	1	Apparatus Assy, Idle (Includes Bolt, Nuts and Gaskets)	6	185-5682	1	Cap
2	185-5680	1	Bolt Assy, Adjusting	7	185-5683	1	Bolt, Adjusting
3	185-2180	1	Nut	8	185-5684	1	Nut
4	185-5681	1	Nut	9	185-2284	2	Gasket
5	185-2338	2	Gasket	10	185-6931	1	Nut

Governor



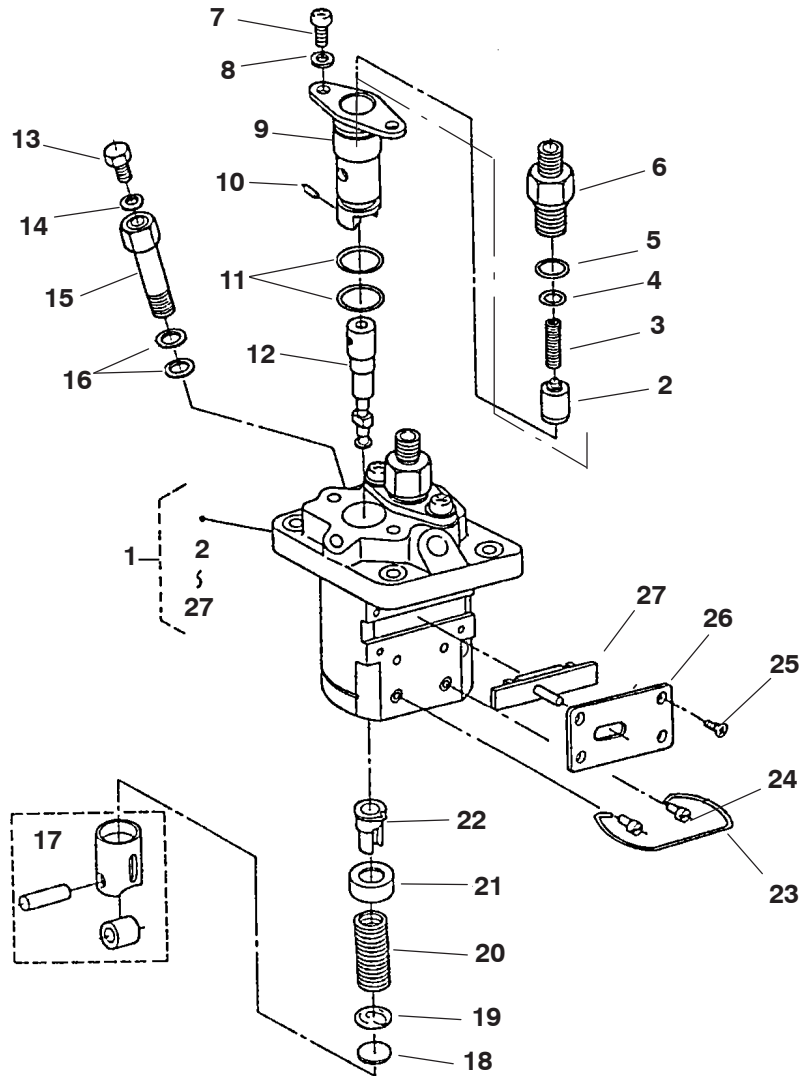
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2639	1	Rotor, Governor	6	150-2724	1	Spring, Governor
2	518-0672	1	Ring, Retainer	7	740-1002	4	Washer, Flat (M5)
3	150-2630	1	Stator	8	815-0877	4	Screw, Socket Head Cap
4	510-0184	1	Bearing, Ball	9	150-2641	1	Cover, Governor
5	150-2643	1	Carrier (Includes Carrier and Ball Bearing)				

Injection Pump



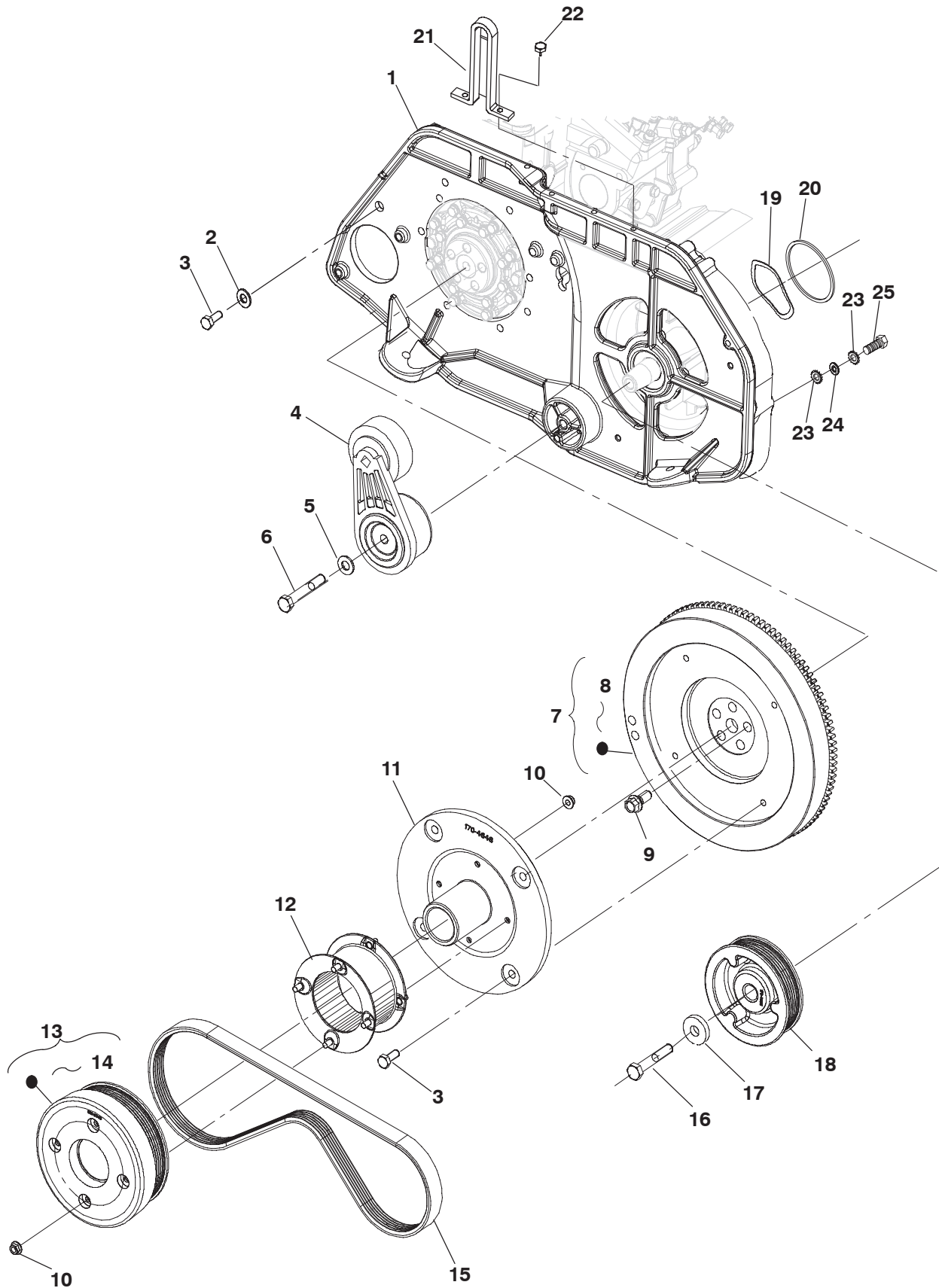
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5422	1	Pump Assy, Injection	3	185-5623	3	Bolt, Hex Socket Head
2		1	Shim, Injection Pump	4	185-5624	1	Stud
	185-6735	1	0.20mm	5	185-5625	1	Nut
	185-6736	1	0.25mm	6	185-2380	4	Washer, Spring
	185-6737	1	0.30mm	7	185-5626	1	Joint, Eye

Injection Pump Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5422	1	Pump Assy, Injection	15	185-5660	1	Screw, Follow
2	185-5639	2	Valve, Delivery	16	185-5661	1	O'Ring
3	185-5640	2	Spring, Delivery Valve	17	185-5649	2	Tappet
4	185-5641	2	Gasket, Delivery Valve	18	185-5655	2	Shim
5	185-5643	2	O'Ring	19	185-5654	2	Seat, Lower Spring
6	185-5642	2	Holder, Delivery Valve	20	185-5652	2	Spring, Plunger
7	185-5647	4	Screw, Round Head Machine	21	185-5653	2	Seat, Upper Spring
8	185-5648	4	Washer	22	185-5659	2	Sleeve, Control
9	185-5644	2	Flange, Sleeve	23	185-5651	1	Wire, Retainer
10	185-5645	2	Pin, Joint	24	185-5650	2	Pin
11	185-5646	4	O'Ring	25	185-5658	4	Screw, Machine
12	185-5638	2	Plunger, Pump	26	185-5657	1	Plate
13	185-5662	1	Screw	27	185-5656	1	Rack, Control
14	185-5663	1	Gasket				

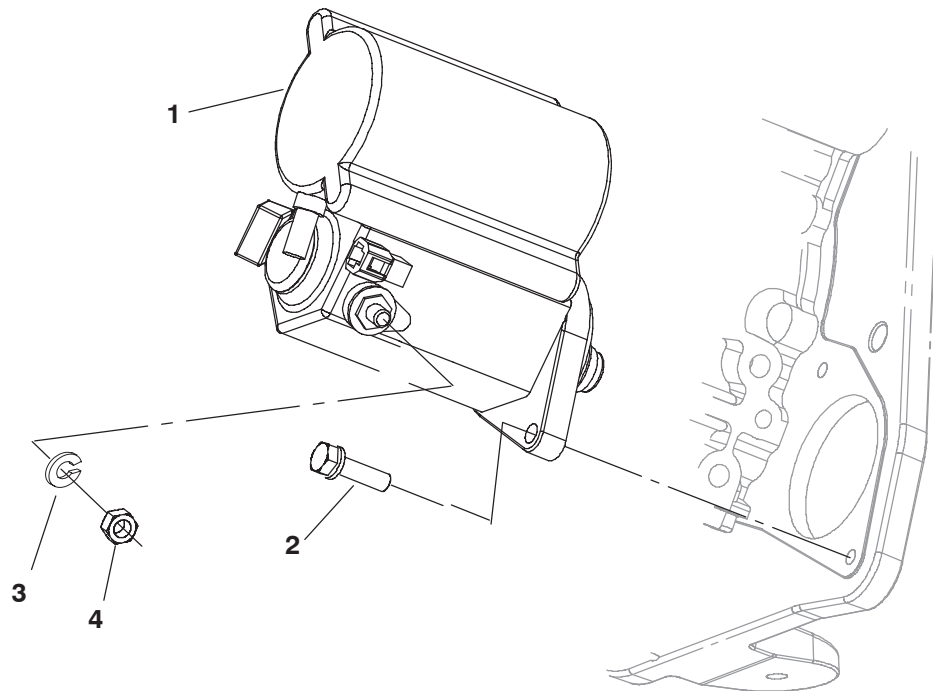
Flywheel



Flywheel

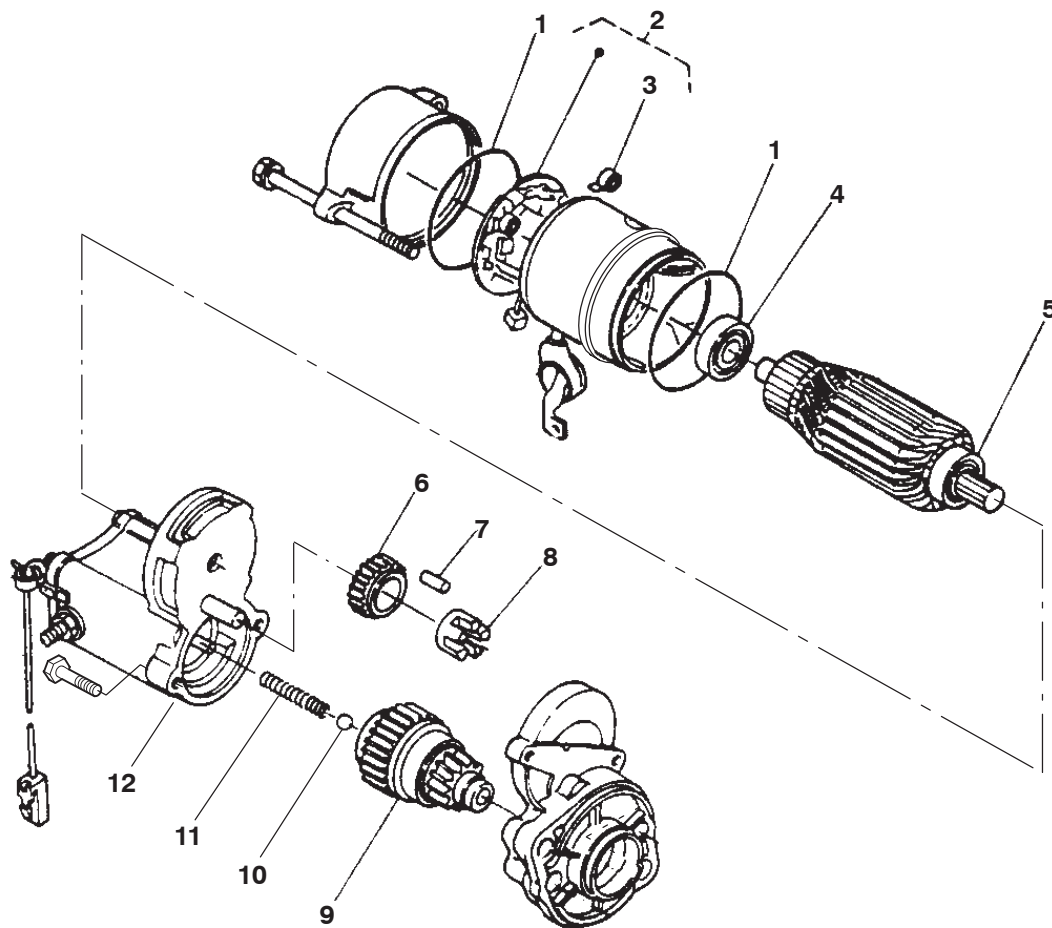
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	101-0826-02	1	Adapter, Engine	14	510-0202-02	2	Bearing, Sleeve
2	526-2100	8	Washer, Flat (M8)	15	511-0196	1	Belt (6 Rib)
3	800-2057	12	Screw, Hex Head Cap (M8 x 1.25 x 20mm)	16	800-2093	1	Screw, Hex Head Cap (M10 x 1.5 x 60mm)
4	190-0757	1	Tensioner, Belt	17	526-0017	1	Washer, Flat
5	526-2120	1	Washer, Flat (M10)	18	512-0205-01	1	Pulley, Generator
6	815-0657	1	Screw, Hex Thread Form (3/8-16 x 2.75")	19	851-0045	1	Washer, Wave
7	104-1967-01	1	Flywheel Assy (Includes Ring Gear)	20	509-0196	1	O'Ring
8	104-1861	1	Gear, Ring	21	403-4546-02	1	Bracket, Lifting
9	185-5587	5	Bolt, Flywheel	22	800-2033	2	Screw, Hex Head Cap (M6 x 1 x 16mm)
10	870-2065-02	8	Nut, Hex (M6 x 1)	23	856-0006	2	Washer, ETIT Locking (1/4")
11	232-4111	1	Hub, Flex Coupling	24	526-0045	1	Washer
12	512-0217	1	Coupling	25	800-6296-01	1	Screw, Hex Flange Head (M6 x 25mm)
13	512-0248	1	Pulley Assy, Drive (Includes Bearings)				

Starter



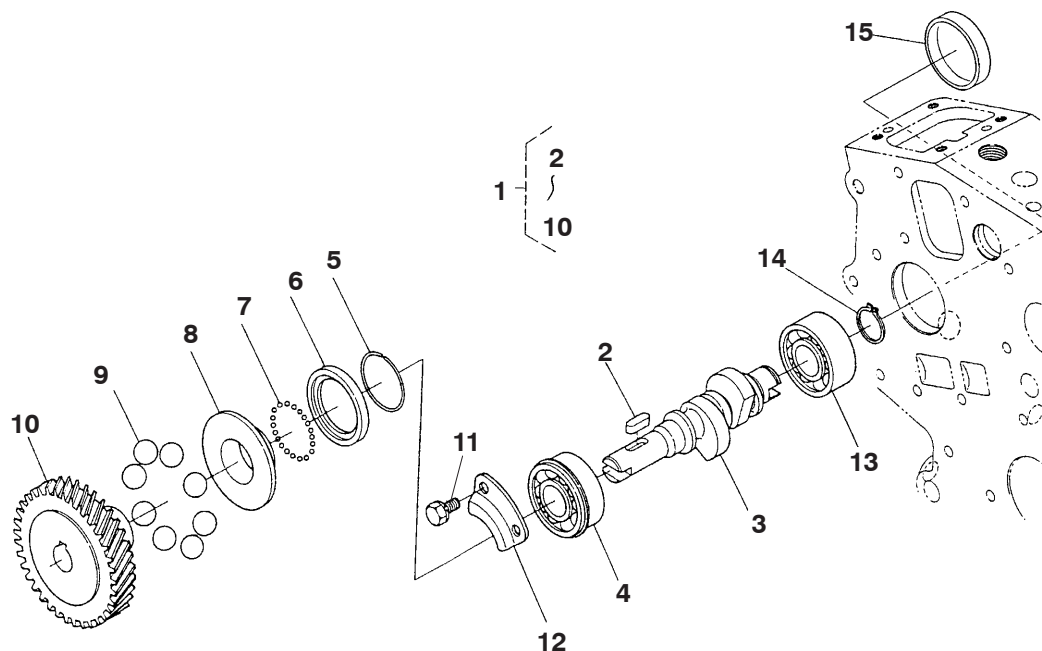
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-2229	1	Starter
2	815-0781	2	Screw, Hex Washer Head (M8 x 1.25 x 30mm)
3	850-2008	1	Washer, Split Lock (M8)
4	860-2008	1	Nut (M8 x 1.25mm)

Starter Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-2229	1	Starter	6	191-2250	1	Pinion, Starter
1	191-2239	1	O'Ring	7	191-2252	1	Roller, Clutch
2	191-2247	1	Holder Assy, Starter (Includes Spring)	8	191-2251	1	Retainer
3	191-2246	1	Spring, Starter	9	191-2253	1	Clutch, Starter
4	191-2255	1	Bearing, Ball	10	191-2241	1	Ball, Steel
5	191-2254	1	Bearing, Ball	11	191-2240	1	Spring, Return
				12	191-2245	1	Switch, Magnetic

Fuel Camshaft

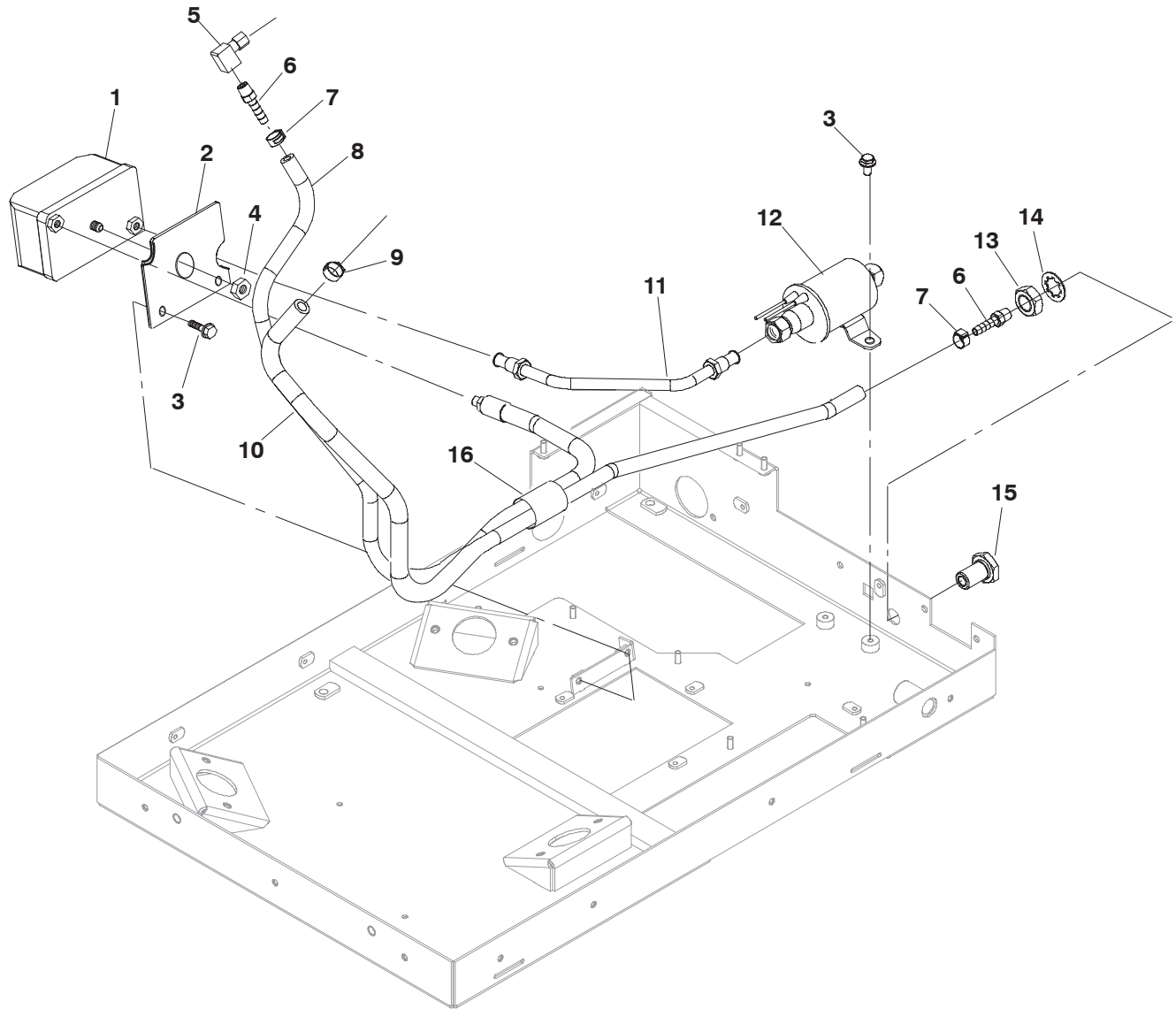


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0049	1	Camshaft Assy, Fuel (Includes Parts Marked *)
2	185-2353	1	*Key, Feather
3	185-5628	1	*Camshaft, Fuel
4	185-5629	1	*Bearing, Ball
5	185-2163	1	*Circlip, External
6	185-5632	1	*Case, Governor Ball
7	185-2357	32	*Ball
8	185-5631	1	*Sleeve, Governor
9	185-5633	8	*Ball

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	185-5630	1	*Gear, Injection Pump
11	185-2386	2	Bolt
12	185-5635	1	Stopper, Fuel Camshaft
13	185-2583	1	Bearing, Ball
14	185-5634	1	Circlip, External
15	185-5489	1	Cover, Fuel Camshaft

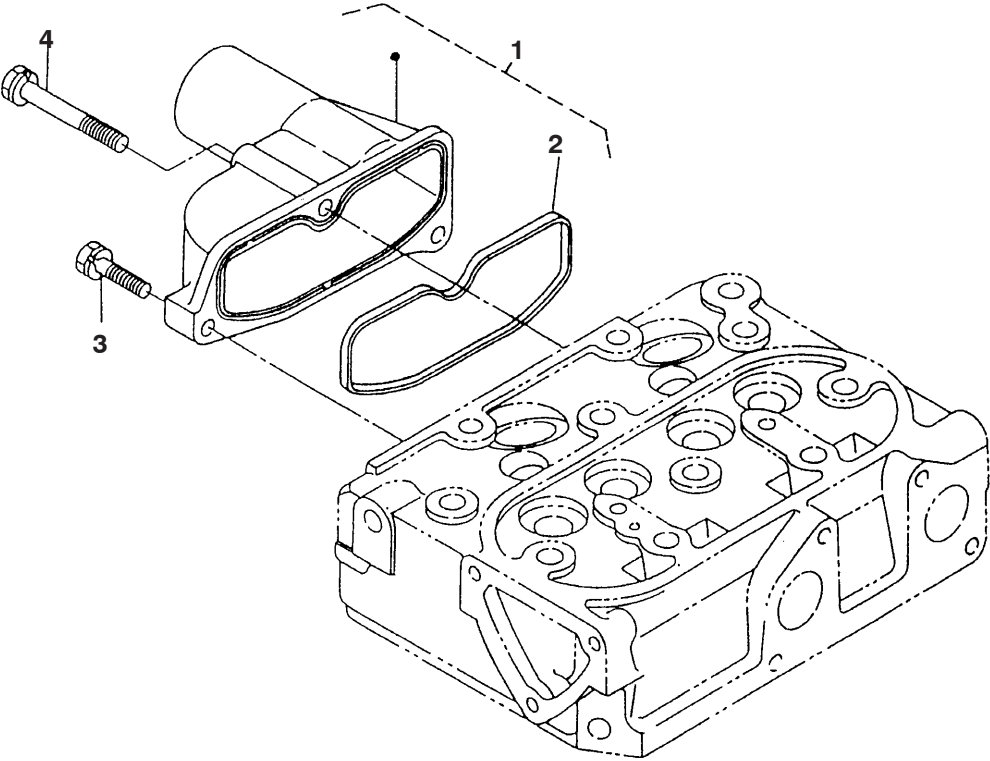
* - Parts Included in Fuel Camshaft Assy.

Fuel System



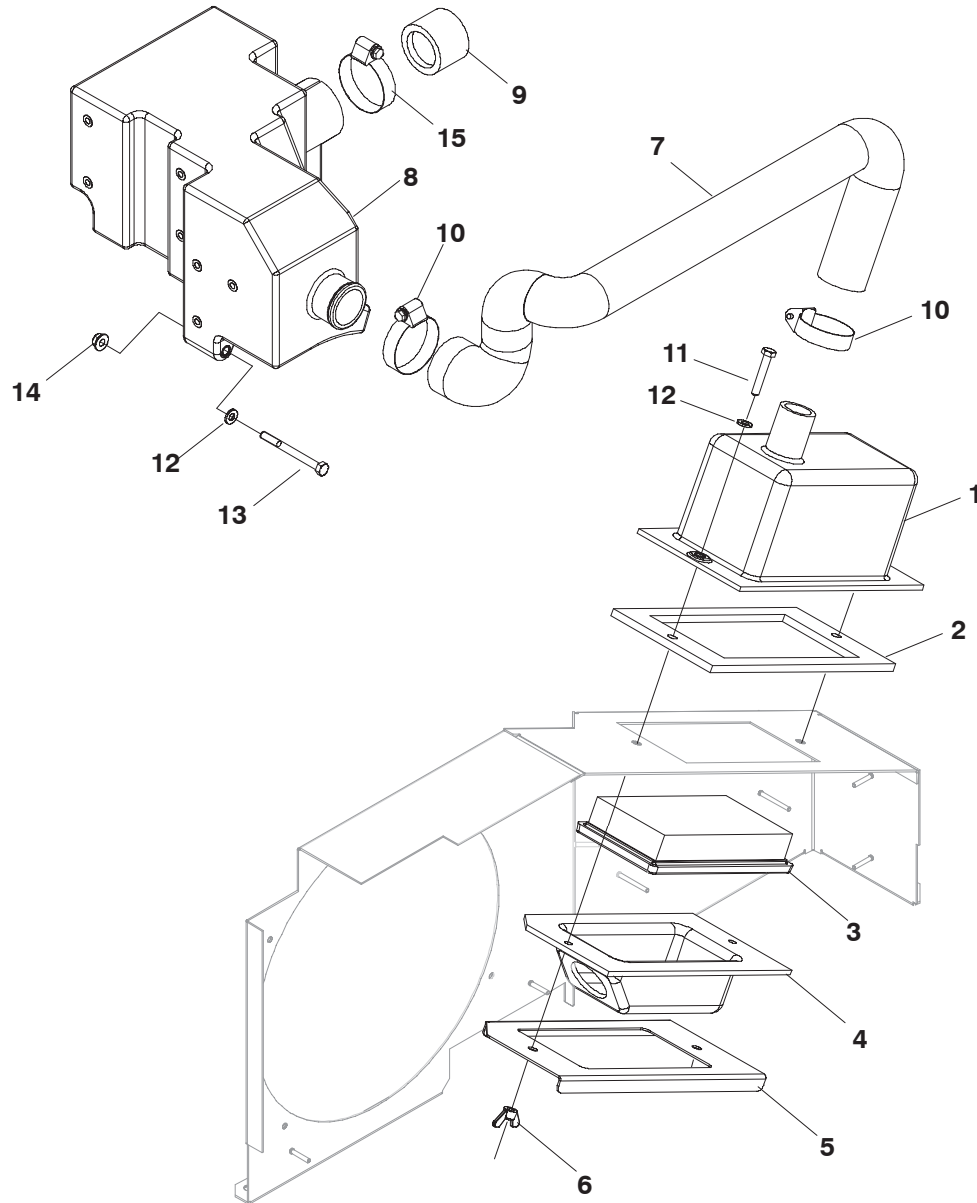
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2513	1	Filter, Fuel	10	149-2580-02	1	Line, Fuel Injection Pump
2	149-2667-02	1	Bracket, Fuel Filter	11	501-0804	1	Line, Fuel
3	821-2096-02	4	Screw, Lock Flanged	12	149-2692	1	Pump, Fuel (Electric)
4	870-0257	1	Nut, Self Locking (5/16-18)	13	868-0007	1	Nut, Hex Jam (5/8-18)
5	502-1224	1	Elbow, 90° Female	14	854-0028	1	Washer, Locking (5/8ID")
6	502-1367-01	2	Connector, Hose	15	502-1296-02	1	Bulkhead, Fitting (Adapter Plug)
7	503-1951-12	2	Clamp, Hose	16	332-2634	1	Clamp, Loop (3/4")
8	503-2052-01	1	Hose, Fuel				
9	503-1951-13	1	Clamp, Hose				

Inlet Manifold



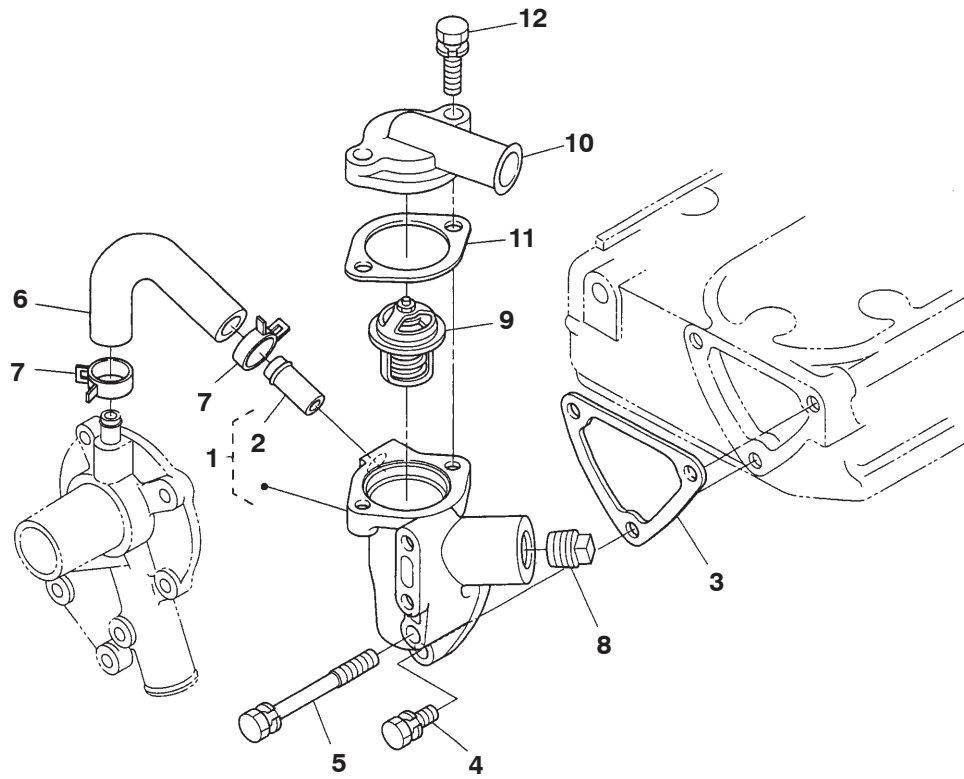
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5531	1	Manifold Assy, Inlet (Includes Gasket)	3	185-2389	2	Bolt
2	185-5335	1	Gasket, Inlet Manifold	4	185-5833	1	Bolt

Intake System



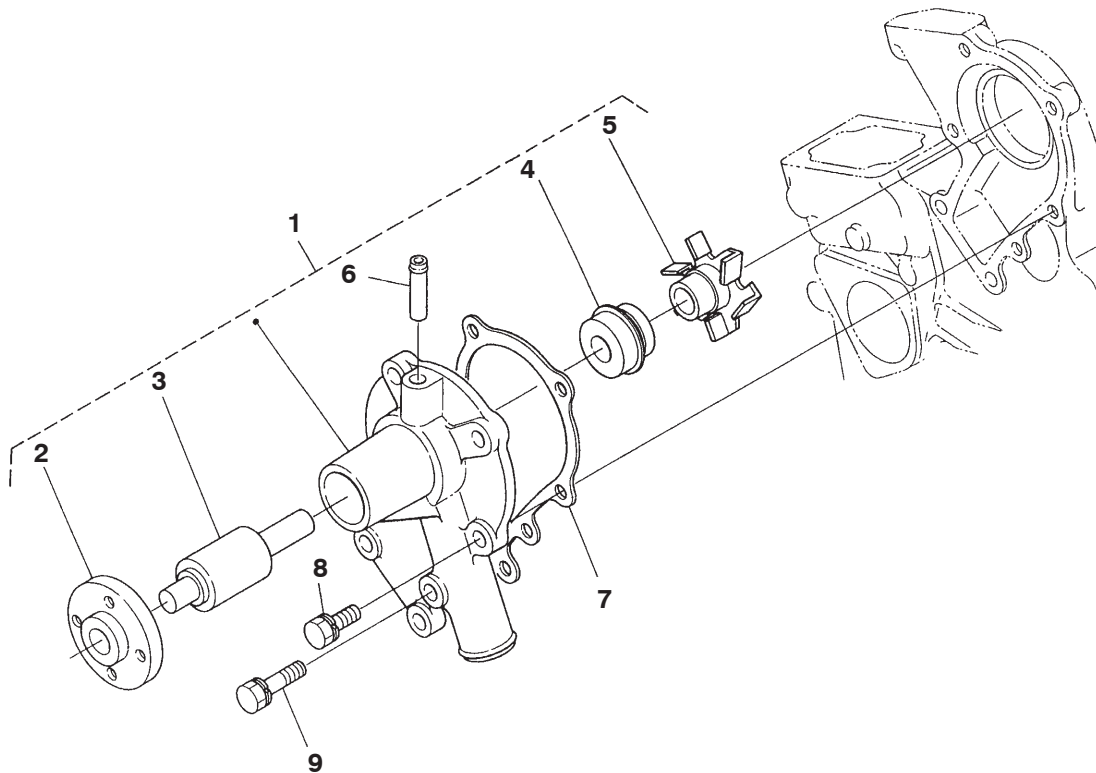
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3378-02	1	Housing, Air Cleaner	10	503-0429	2	Band, Hose Clamp
2	140-3445	1	Gasket, Air Cleaner	11	800-6298	2	Screw, Hex Head (M6 x 1 x 40mm)
3	140-3351	1	Element, Air Cleaner	12	526-2080	3	Washer, Flat (M6)
4	140-3377	1	Cover, Air Cleaner	13	800-2043	1	Screw, Hex Head Cap (M6 x 1 x 65mm)
5	140-3471	1	Clamp, Air Cleaner	14	870-2065-02	1	Nut, Hex Flange
6	865-0030	2	Nut, Wing	15	503-0398	1	Clamp
7	503-2311	1	Hose, Air				
8	134-5282-02	1	Resonator, Intake				
9	140-2898	1	Sleeve, Air Intake				

Water Flange



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0063	1	Flange, Water (Includes Pipe)	7	185-5723	2	Band, Pipe
2	185-5719	1	Pipe, Water Return	8	185-5826	1	Plug
3	185-7393	1	Gasket, Water Flange	9	185-5458	1	Thermostat
4	185-2388	1	Bolt	10	185-7208	1	Cover, Thermostat
5	184-0038	2	Bolt	11	185-2238	1	Gasket, Thermostat
6	184-0064	1	Pipe, Water Return	12	185-6677	2	Bolt

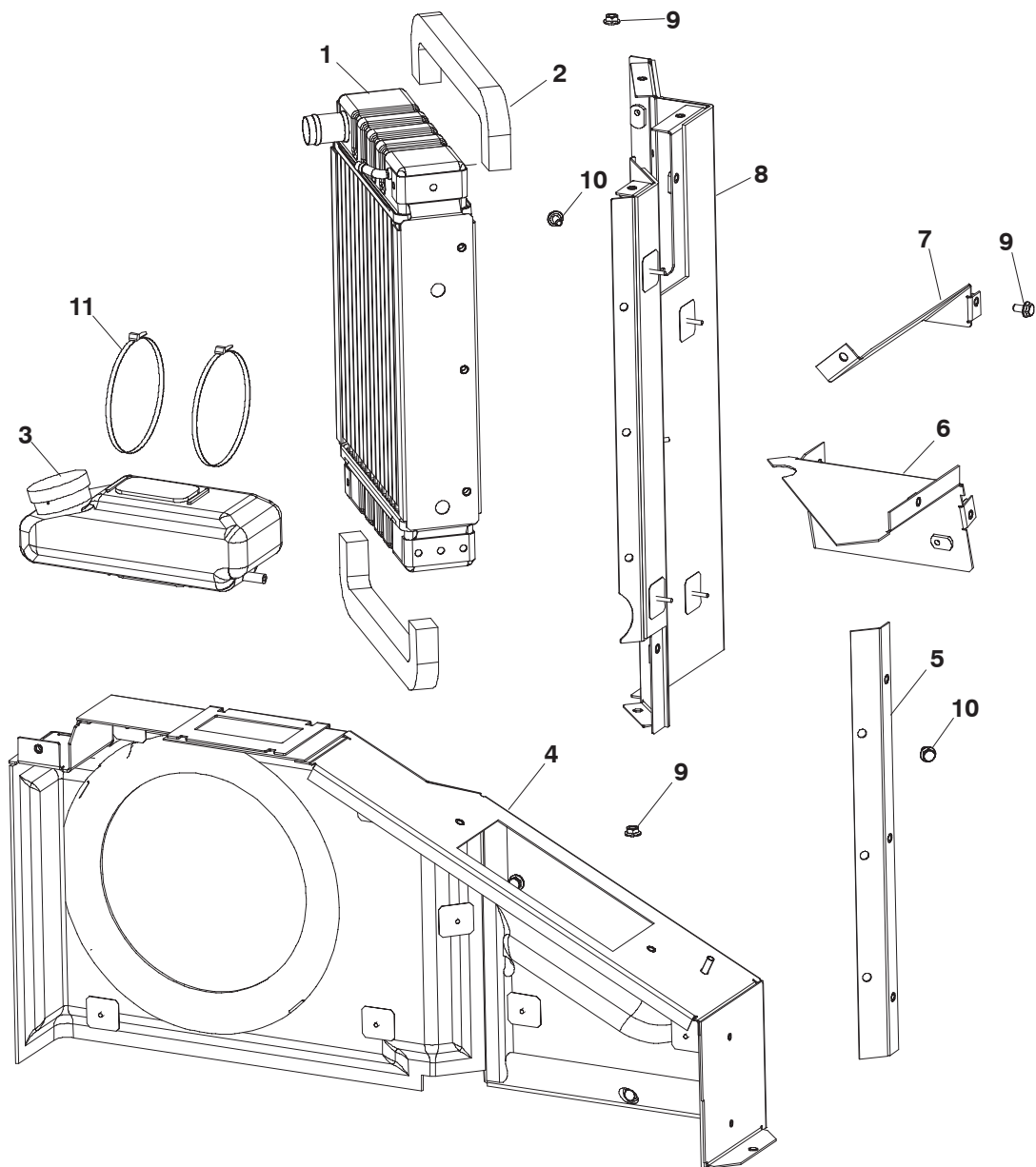
Coolant Water Pump



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5433	1	Pump Assy, Water (Includes Parts Marked *)	7	185-5434	1	Gasket, Water Pump
2	185-5712	1	*Flange	8	185-2559	5	Bolt
3	185-5713	1	*Bearing	9	185-5717	2	Bolt
4	185-5714	1	*Seal Assy, Mechanical				
5	185-5715	1	*Impeller, Water Pump				
6	185-5716	1	*Pipe, Water Return				

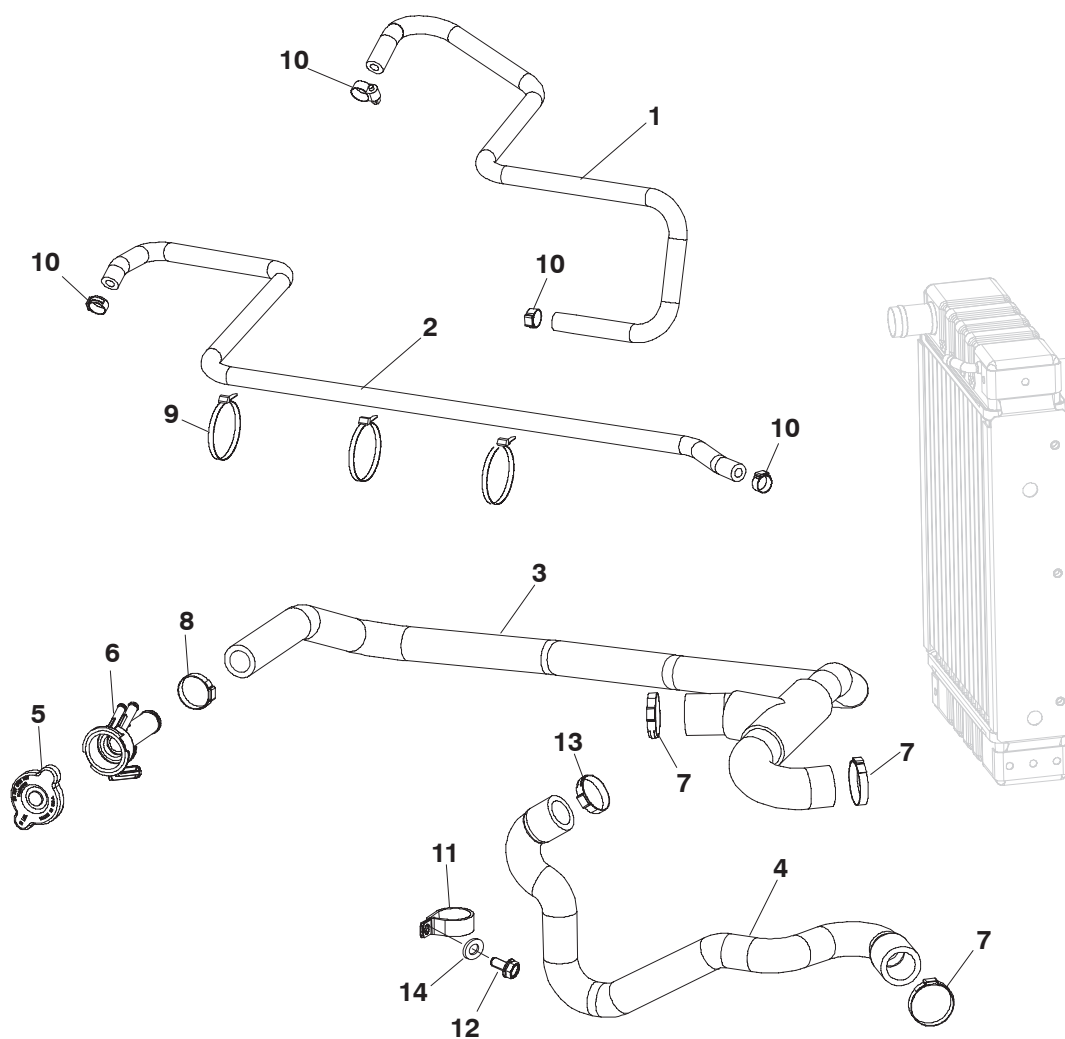
* – Parts Included in Water Pump Assy.

Coolant System



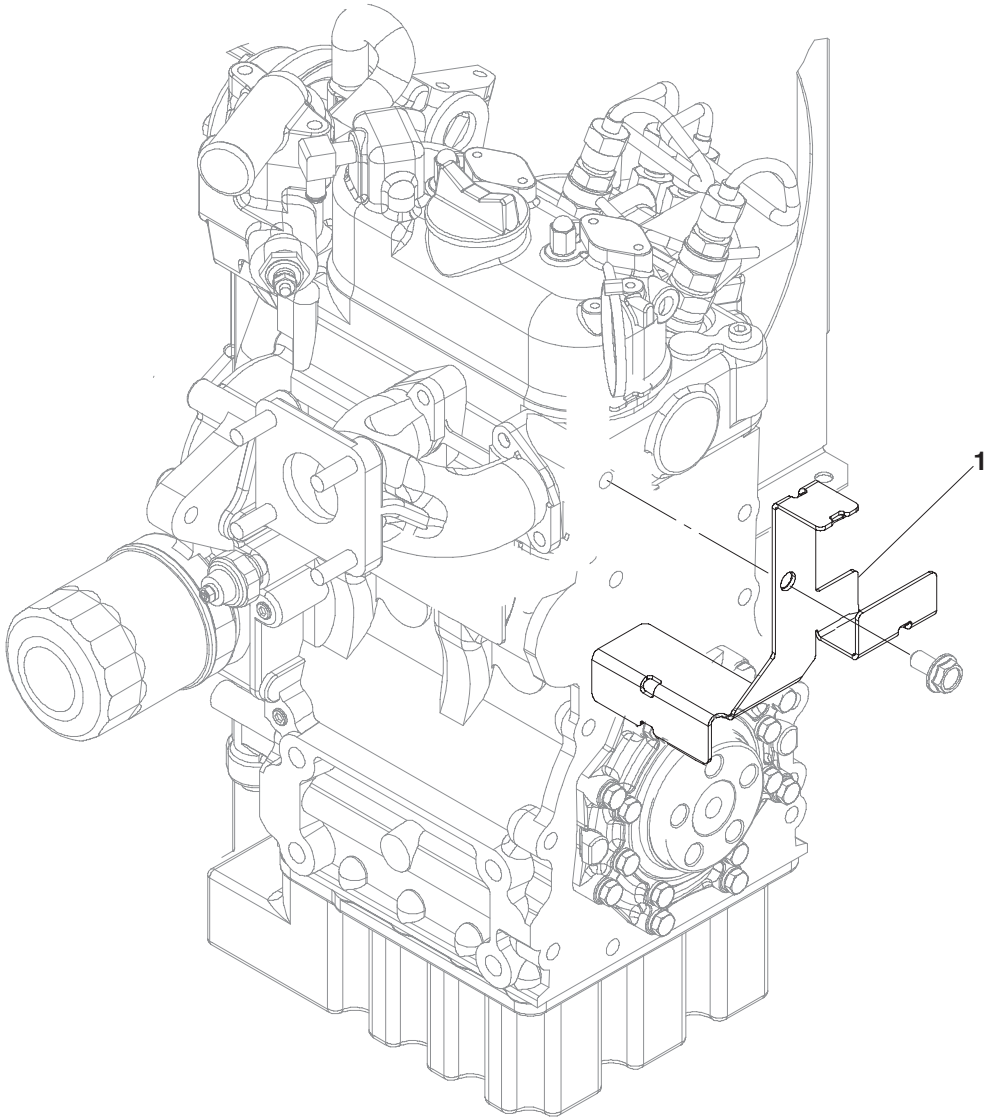
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5437	1	Radiator	7	130-5624-02	1	Duct, Radiator
2	130-5623	2	Seal, Radiator	8	130-5499	1	Baffle, Air
3	130-5478	1	Tank, Coolant	9	870-2065-02	6	Nut, Hex Flanged
4	319-4987	1	Duct, Inlet	10	821-2096-02	10	Screw, Locking Flange
5	130-5462-02	1	Bracket, Radiator	11	332-1389	2	Cable, Tie
6	130-5461-02	1	Bracket, Radiator				

Cooling System



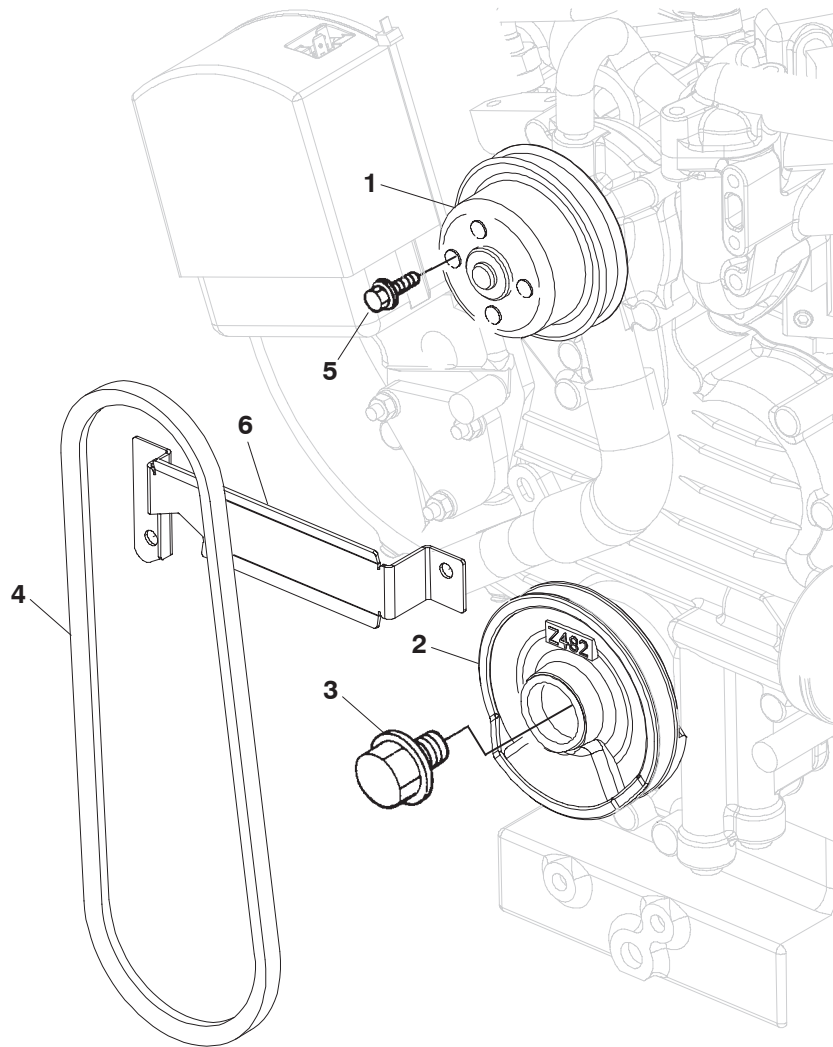
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-2343-04	1	Hose, Air	10	503-0685	4	Clamp, Hose
2	503-2343-02	1	Hose, Air	11	518-0548-05	1	Clamp, Cable
3	503-2312	1	Hose, Coolant	12	815-0829-04	1	Screw, Hex Washer Head Thread Form(M8 x 1.25 x 16mm)
4	503-2313	1	Hose, Coolant	13	503-1951-40	1	Clamp, Hose
5	130-4320	1	Cap, Fill	14	526-0018	1	Washer, Flat
6	130-4321	1	Neck, Fill				
7	503-1951-46	3	Clamp, Hose				
8	503-1951-35	1	Clamp, Hose				
9	332-1389	3	Cable, Tie				

Bracket



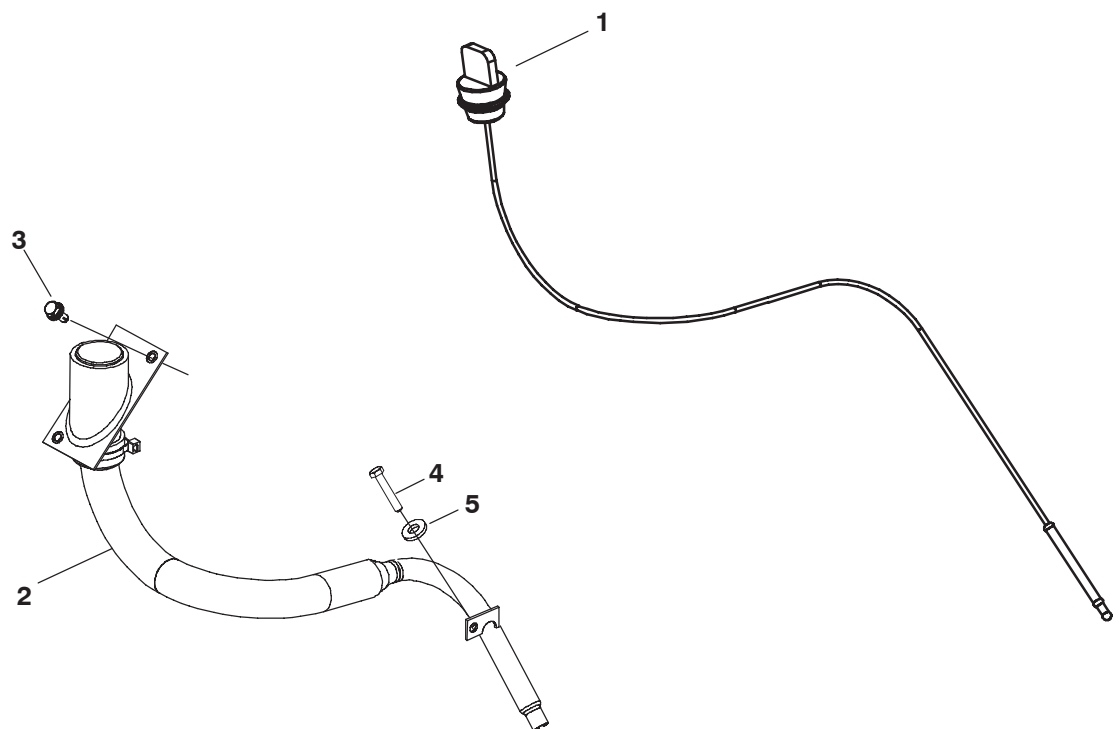
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5632-02	1	Bracket, Hose

Pulley



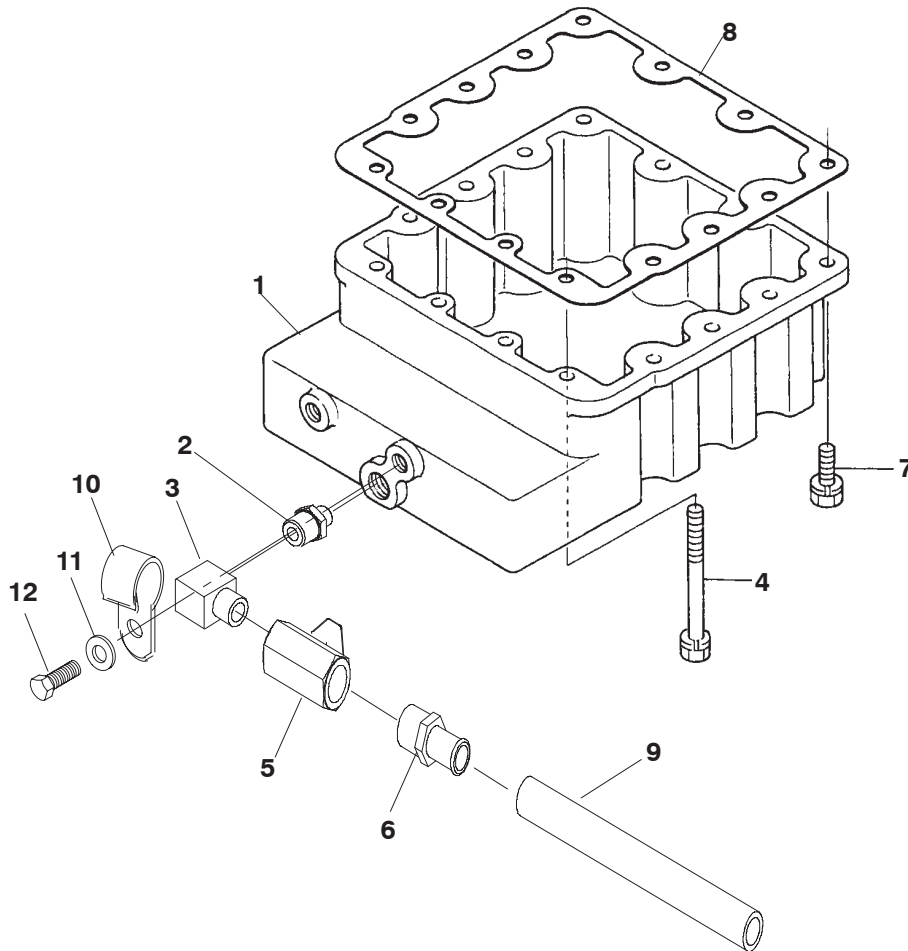
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5707	1	Pulley, Water Pump	5	185-2572	4	Bolt, Flange
2	185-6822	1	Pulley, Fan Drive	6	503-2398-02	1	Clamp, Hose
3	185-5709	1	Bolt, Flange				
4	511-0187	1	Belt				

Oil Fill Indicator



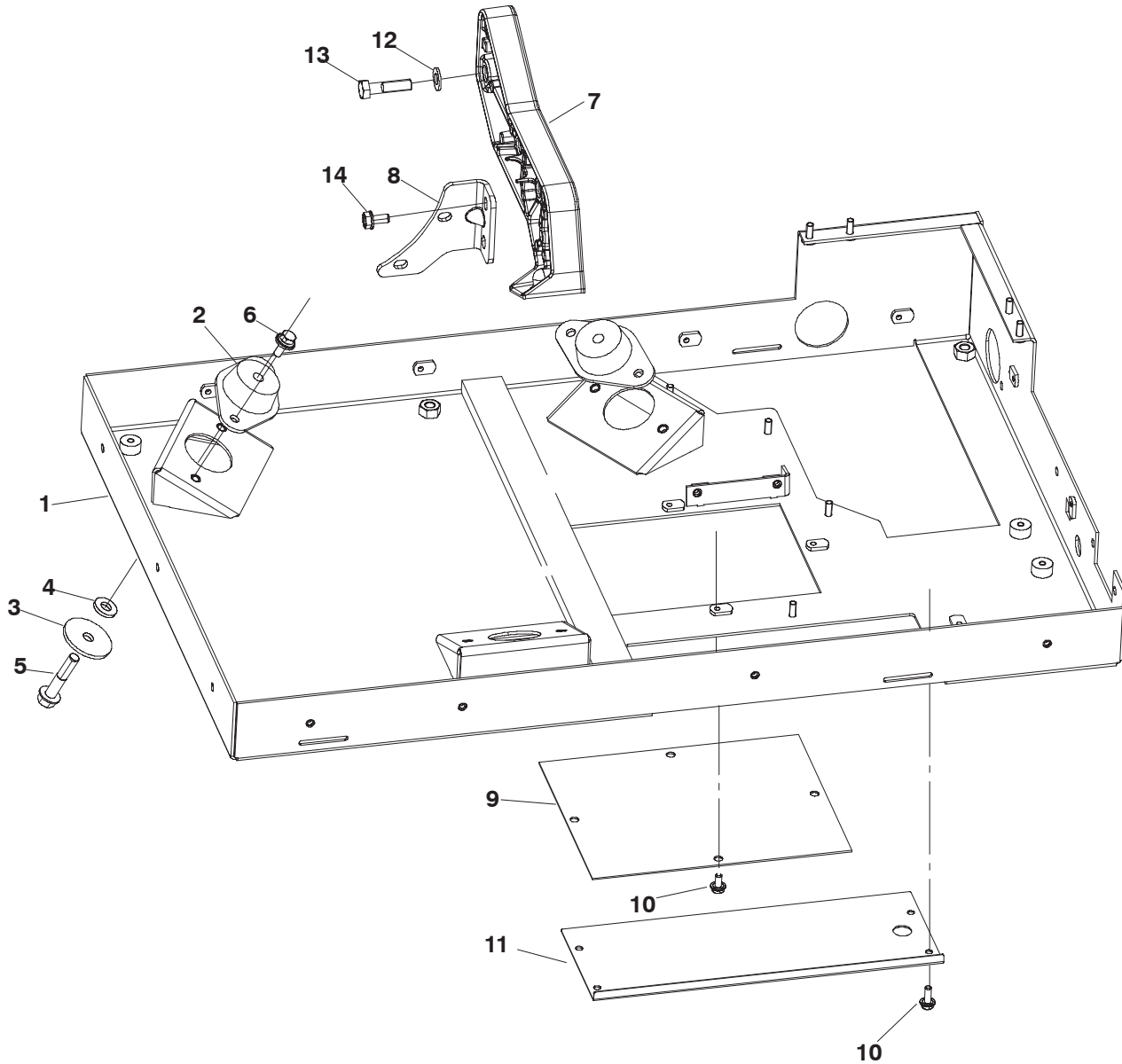
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	123-2227	1	Indicator Assy, Oil
1	123-2234	1	Indicator, Oil
2	123-2226	1	Tube, Oil
3	821-2096-02	2	Screw, Locking Flange
4	725-1027	1	Screw, Hex Socket Head (M6 x 1 x 16mm)
5	526-2081	1	Washer, Flat

Oil Pan



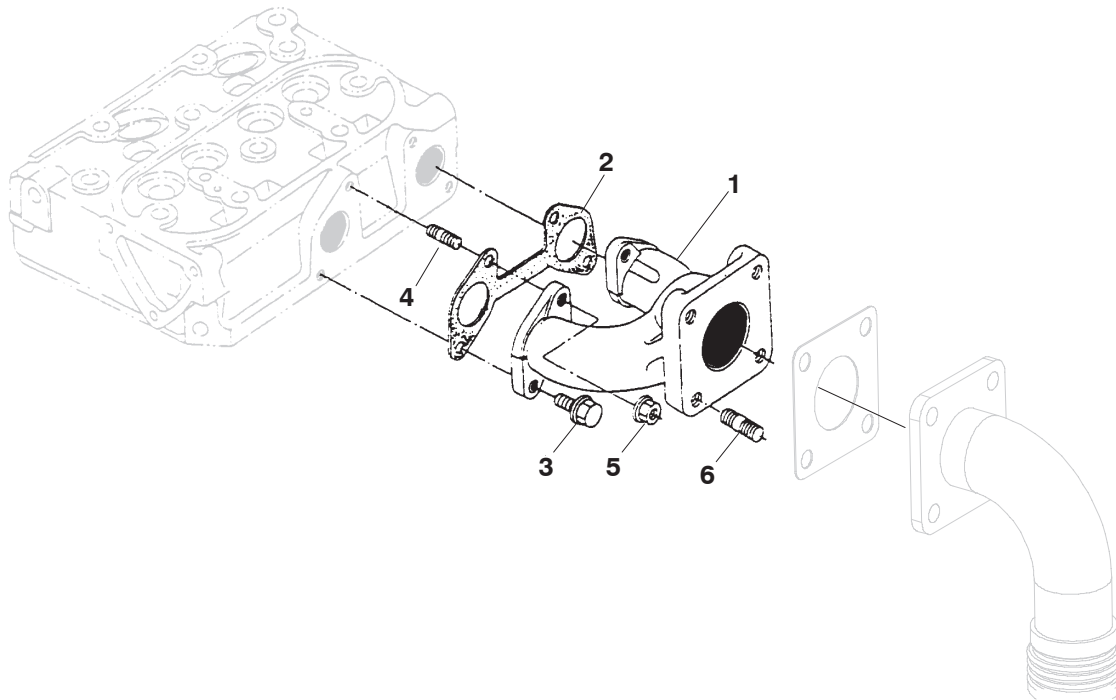
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-1480	1	Pan, Oil	8	184-0039	1	Gasket, Oil Pan
2	102-1485	1	Adapter, Oil Drain	9	503-2407	1	Hose, Oil
3	502-1180	1	Elbow, 90° Brass Street	10	332-2634	1	Clamp, J (3/4")
4	184-0011		Bolt	11	526-0115	1	Washer, Flat
5	504-0206	1	Valve, Ball	12	800-2052	1	Screw, Hex Head Cap (M8 x 1.25 x 12mm)
6	503-1168	1	Connector, Hose				
7	185-2389	14	Bolt				

Drip Pan



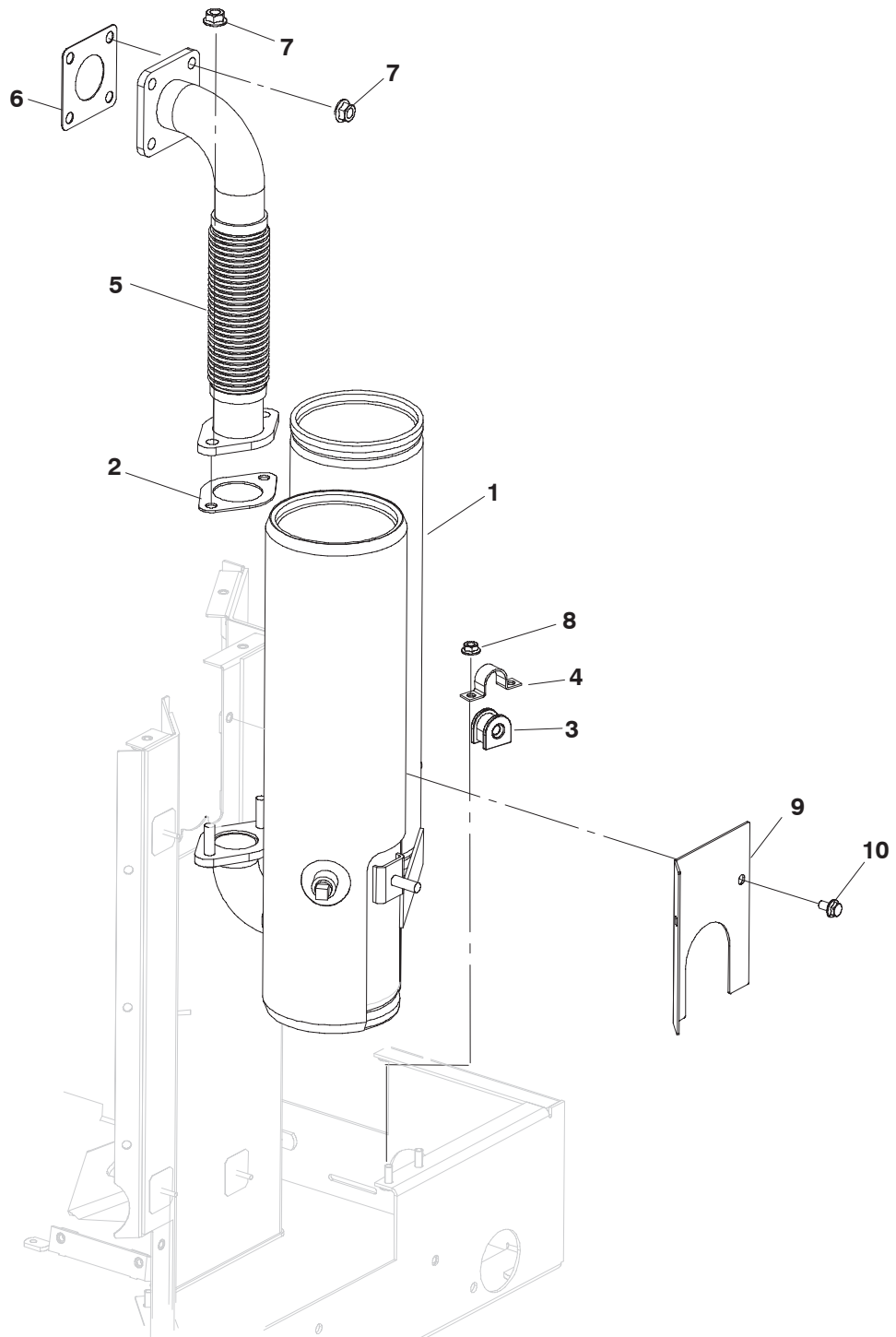
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4561-02	1	Pan, Drip	9	403-4565-02	1	Cover, Service
2	402-0728-01	3	Isolator, Vibration	10	821-2096-02	9	Screw, Locking Flange
3	526-0324	3	Washer, Flat (3/8")	11	130-5699-02	1	Cover, Guard
4	526-0030	3	Washer, Flat (3/8")	12	526-2120	3	Washer, Flat (M10)
5	815-0842-09	3	Screw, Thread Form (M10 x 1.5 x 50mm)	13	800-3006	3	Screw, Hex Head Cap (M10 x 1.25 x 40mm)
6	821-6003-01	6	Screw, Hex Head Sems (M8 x 1.25 x 16mm)	14	815-0829-04	4	Screw, Hex Washer Head Thread Form(M8 x 1.28 x 16mm)
7	403-4605	1	Bracket, Engine				
8	403-4635-04	1	Bracket, Generator				

Exhaust Manifold



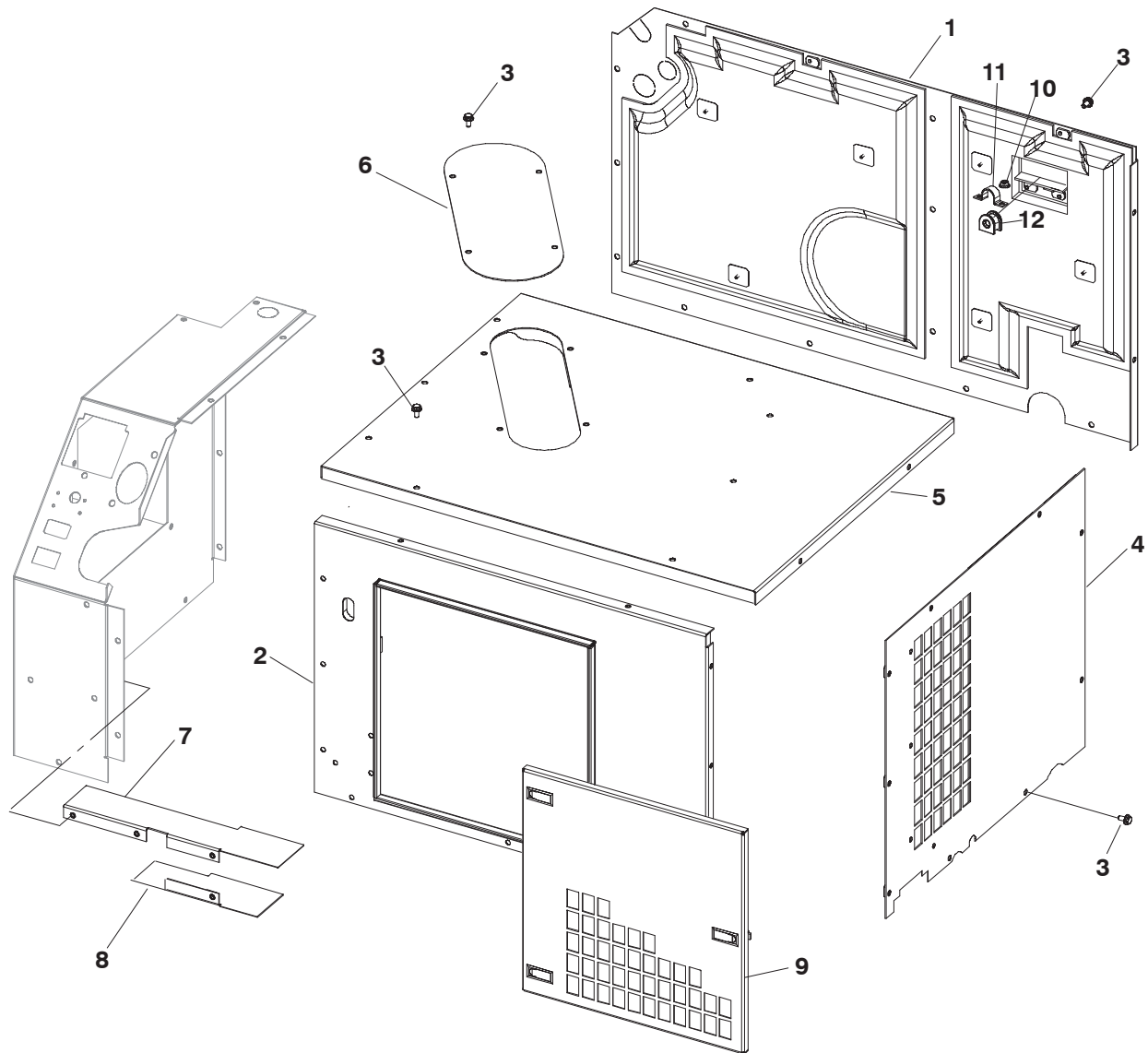
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5533	1	Manifold, Exhaust	5	185-5536	2	Nut
2	185-6851	1	Gasket	6	185-2362	4	Stud
3	185-5534	2	Bolts				
4	185-5535	2	Stud				

Exhaust System



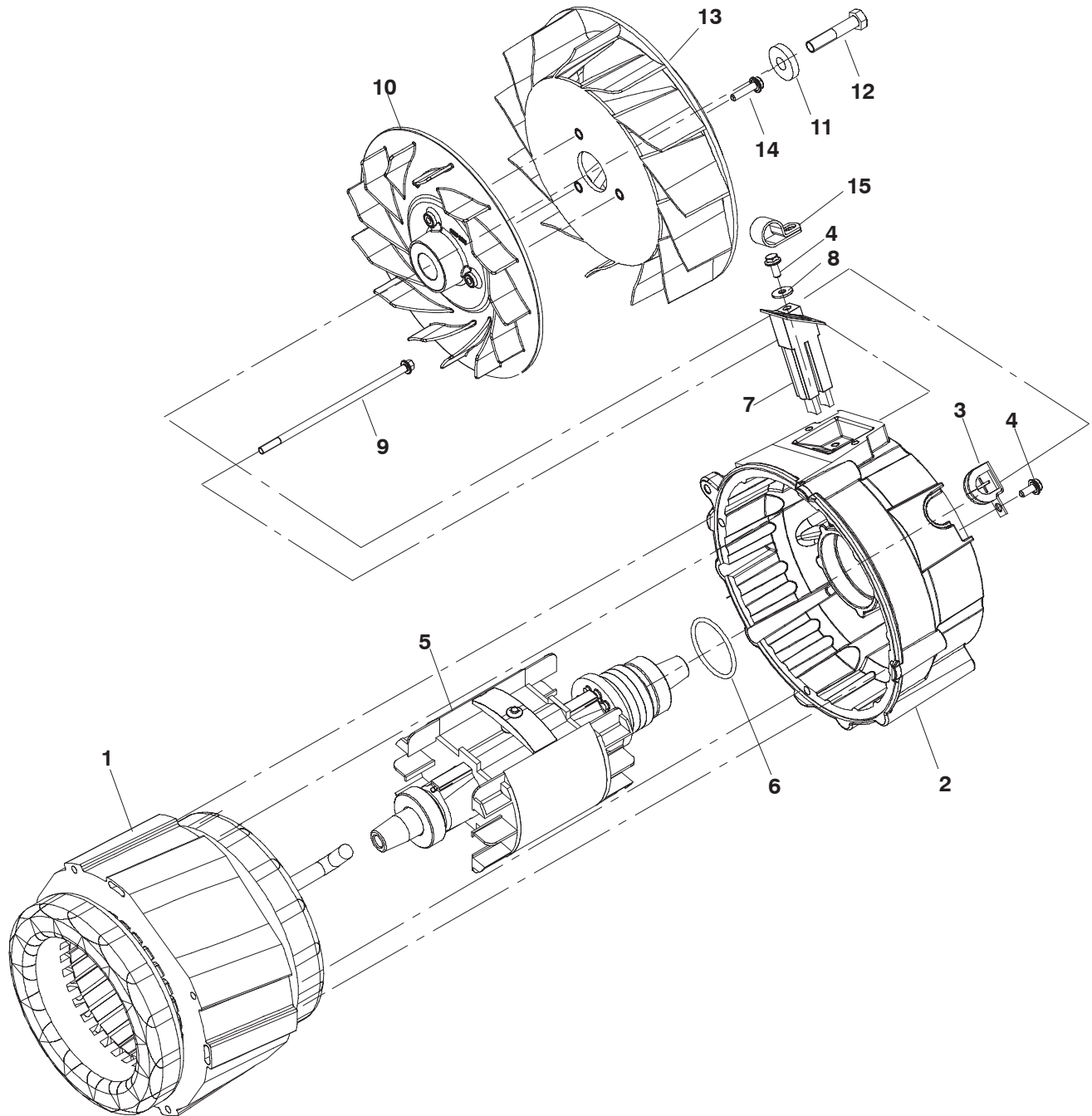
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	541-0953	1	Kit, Muffler	6	185-6853	1	Gasket, Exhaust Out
	155-3476	1	Muffler, Exhaust Spec A	7	870-0557	6	Nut, Hex Flange (M8 x 1.25mm)
	155-4060	1	Begin Spec B	8	870-2065-02	2	Nut, Hex Flange
2	154-2800	1	Gasket, Exhaust Muffler	9	155-3730-02	1	Bracket, Exhaust
3	402-0687-01	1	Isolator, Muffler	10	821-2096-02	2	Screw, Locking Flange (M6 x 1 x 12mm)
4	402-0695-02	1	Clamp, Muffler Isolator				
5	154-3119	1	Pipe, Exhaust Muffler				

Enclosure



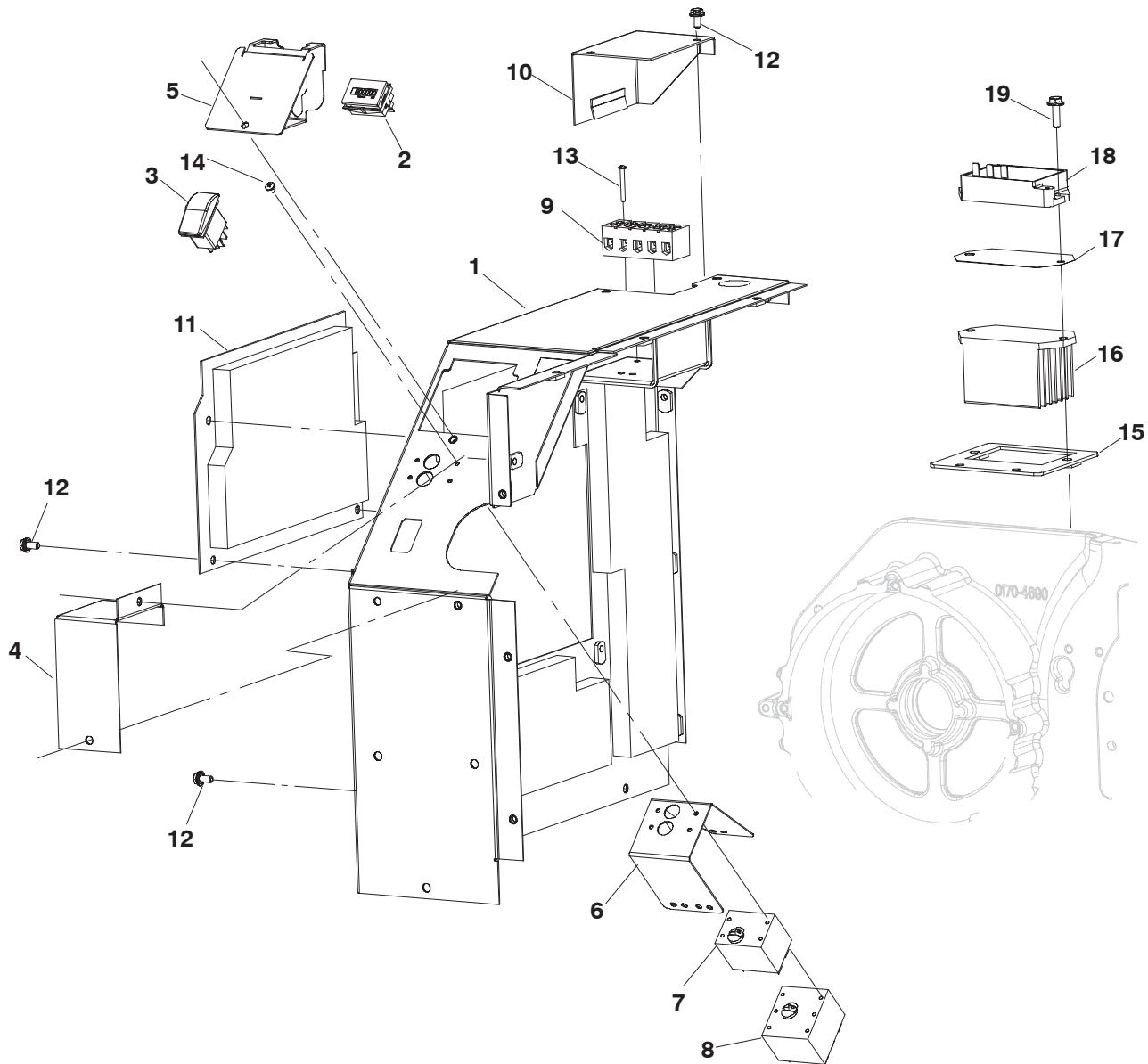
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7568	1	Cover, Enclosure Right Hand Begin Spec A-B	8	405-7660-02	1	Panel, Air Baffle Begin Spec A-B
2	405-6835-02		Cover, Enclosure Left Hand Begin Spec A-B	9	405-7660-02	1	Cover, Access Panel (LH) Begin Spec A-B
3	821-2096-02	47	Screw, Locking Flange (M6 x1 x 12mm)	10	870-2065-02	2	Nut, Hex Flange
4	405-6836-02	1	Cover, Enclosure Front Begin Spec A-B	11	402-0695-02	1	Clamp, Muffler Isolator
5	405-6833-02		Cover, Enclosure Top (Includes Begin Spec A-B	12	402-0687-01	1	Isolator, Muffler
6	405-7328	1	Panel, Access	* Panels Include Insulation, Push-On Nuts and Seals			
7	405-7659-02	1	Panel, Air Baffle Begin Spec A-B				

Generator



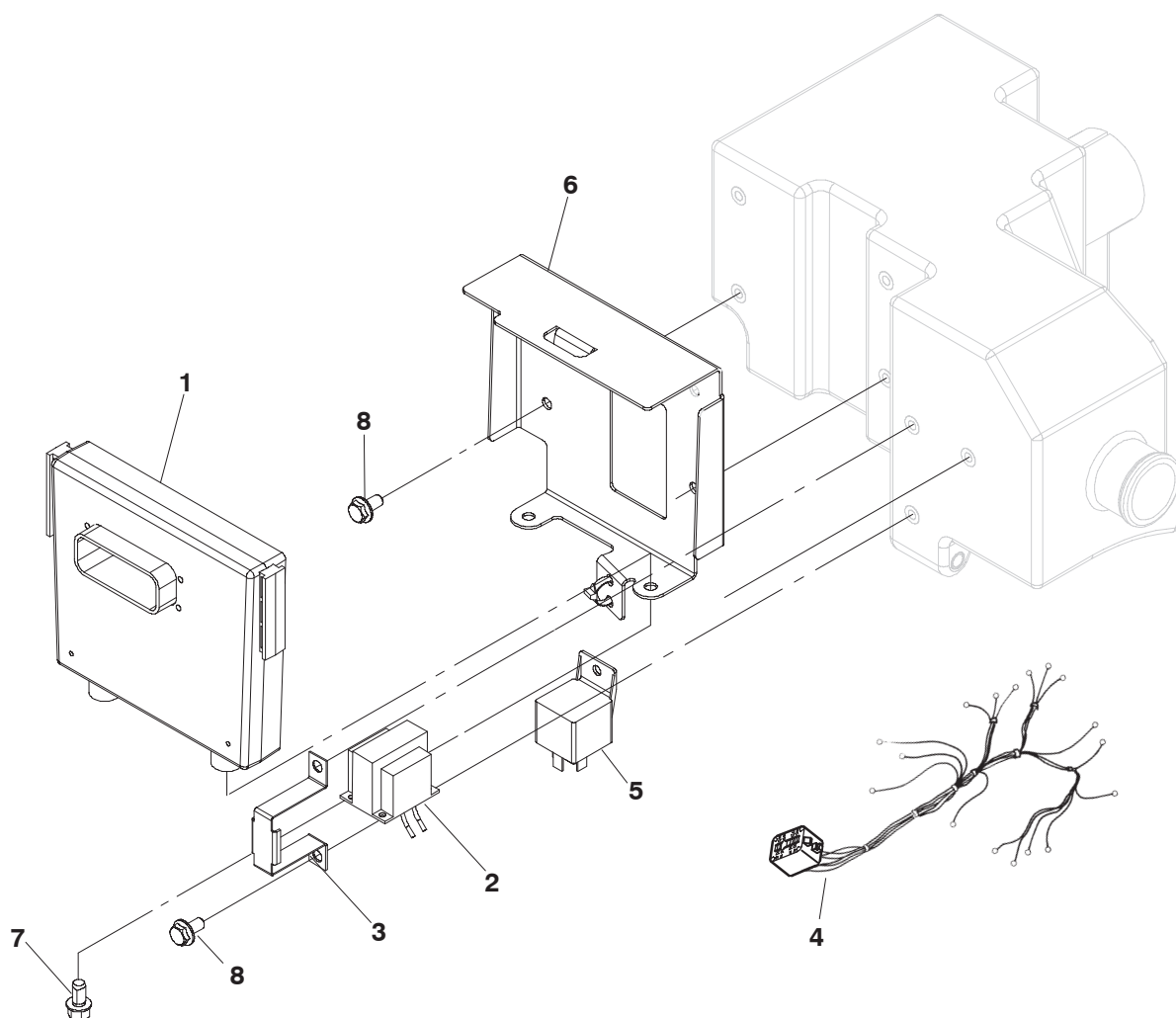
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator, Wound	6	509-0196	1	O'Ring
	220-4620-01	1	120/240 Volts, 60Hz Spec A	7	212-1303	1	Brush, Block
	220-4620-02	1	120 Volts 60Hz Spec A	8	526-2083	1	Washer, Flat (M6)
	220-4620-03	1	230 Volts 50Hz Spec A	9	815-0927-01	4	Bolt, Stator Mounting
	220-4621-01	1	50Hz 400V Begin Spec B	10	205-0300	1	Fan, Generator
	220-4621-02	1	60Hz 240V Begin Spec B	11	526-0017	1	Washer, Flat
2	211-0521	1	Endbell	12	800-2091	1	Screw, Hex Head Cap (M10 x 1.5 x 50mm)
3	508-1167	1	Grommet	13	205-0289	1	Fan
4	815-0753	3	Screw, Lock Flange	14	800-6296-01	3	Screw, Hex Head Flange (M6 x 25mm)
5			Rotor	15	332-1356	1	Clamp, Loop (Insulated)
	201-3598-03	1	Spec A				
	201-3607-03	1	Begin Spec B				

Control Box



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7491	1	Panel Assy, Control (Includes Parts Marked *)	11	405-7496	1	Cover, Enclosure
2	302-2048	1	Hourmeter	12	821-2096-02	15	Screw, Locking Flange (M6 x 1 x 12mm)
3	308-1038	1	Switch, Rocker	13	812-0070	2	Screw, Round Head (6-32 x 1.25)
4	405-5309-03	1	Cover, Access (Coolant)	14	815-0549-01	4	Screw, Xrec Phillips Head (6-32 x .25)
5	405-7323-02	1	Cover, Access	15	305-0998-02	1	Bracket, Regulator
6	320-2101-02	1	Guard, Circuit Breaker	16	305-0995	1	Heatsink
7	320-1548-03	1	Circuit, Breaker Single Phase	17	363-0205	1	Pad, Heatsink
8			Circuit, Breaker	18	191-2282	1	Regulator, Battery Charger
	320-1649-06	1	3 Phase (50Hz)	19	821-2034	2	Screw, Locking Flange (M6 x 1 x 20mm)
	320-1649-03	1	3 Phase (60Hz)				
9	-	1	Harness, AC (See AC Harness Page)				
10	405-5380-05	1	Cover, AC (Black)				

Control

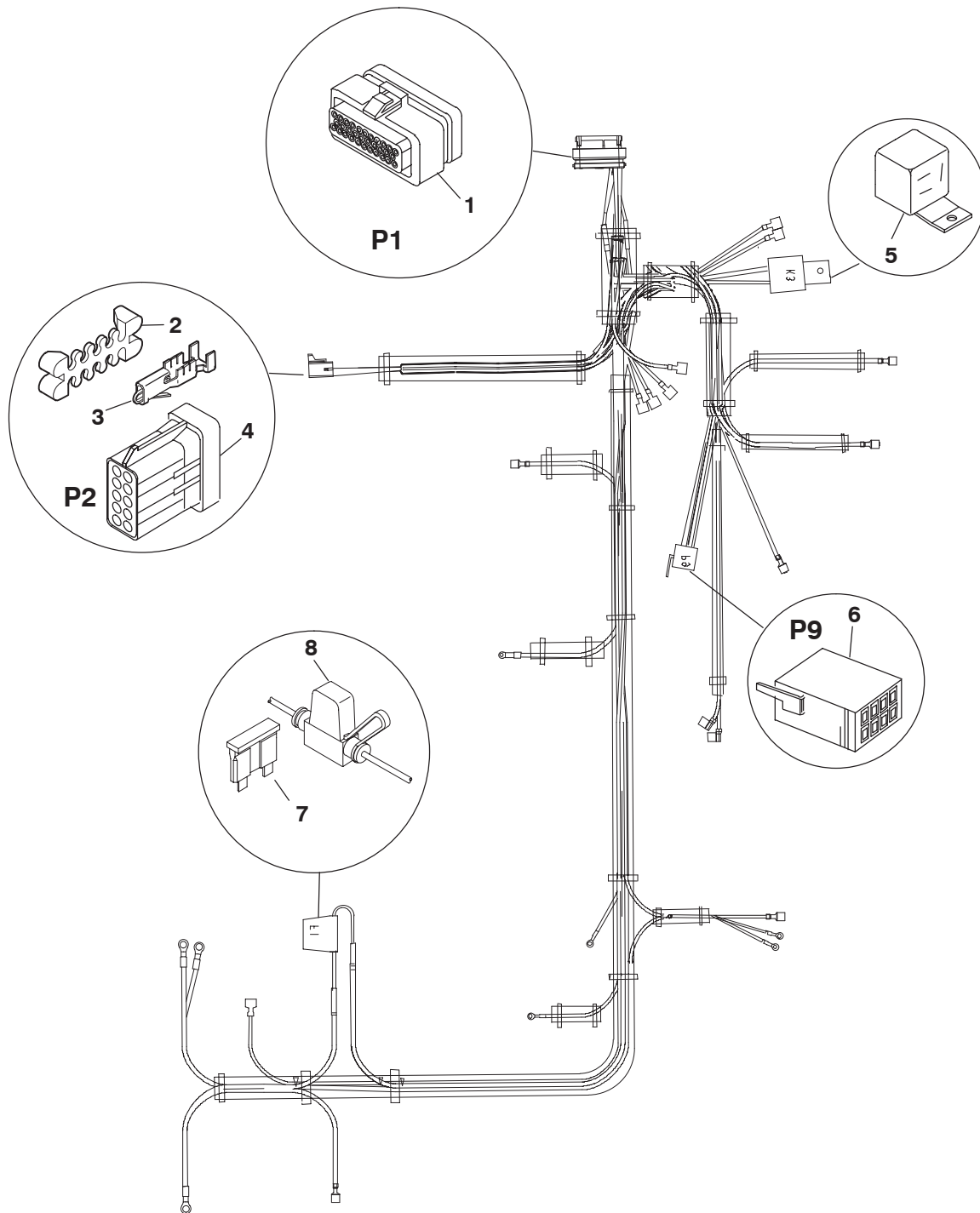


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	327-1279	1	Control, PCB
2	315-0856	1	Transformer, (Three Phase) Spec A
	315-0899	1	Begin Spec B
3	315-0882	1	Transformer, Bracket (Three Phase)
4	-	1	*Harness, Control (See Control Harness)
5	307-1886	1	Relay, 12V SPDT

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	319-4511-02	1	Bracket, Control
7	815-0943-02	2	Screw, Hex Washer Head Thread Forming (1/4-10 x .50)
8			Screw, Locking Flange
	821-2096-02	5	Signal Phase
	821-2096-02	7	Three Phase

* See Information Control Harness Page

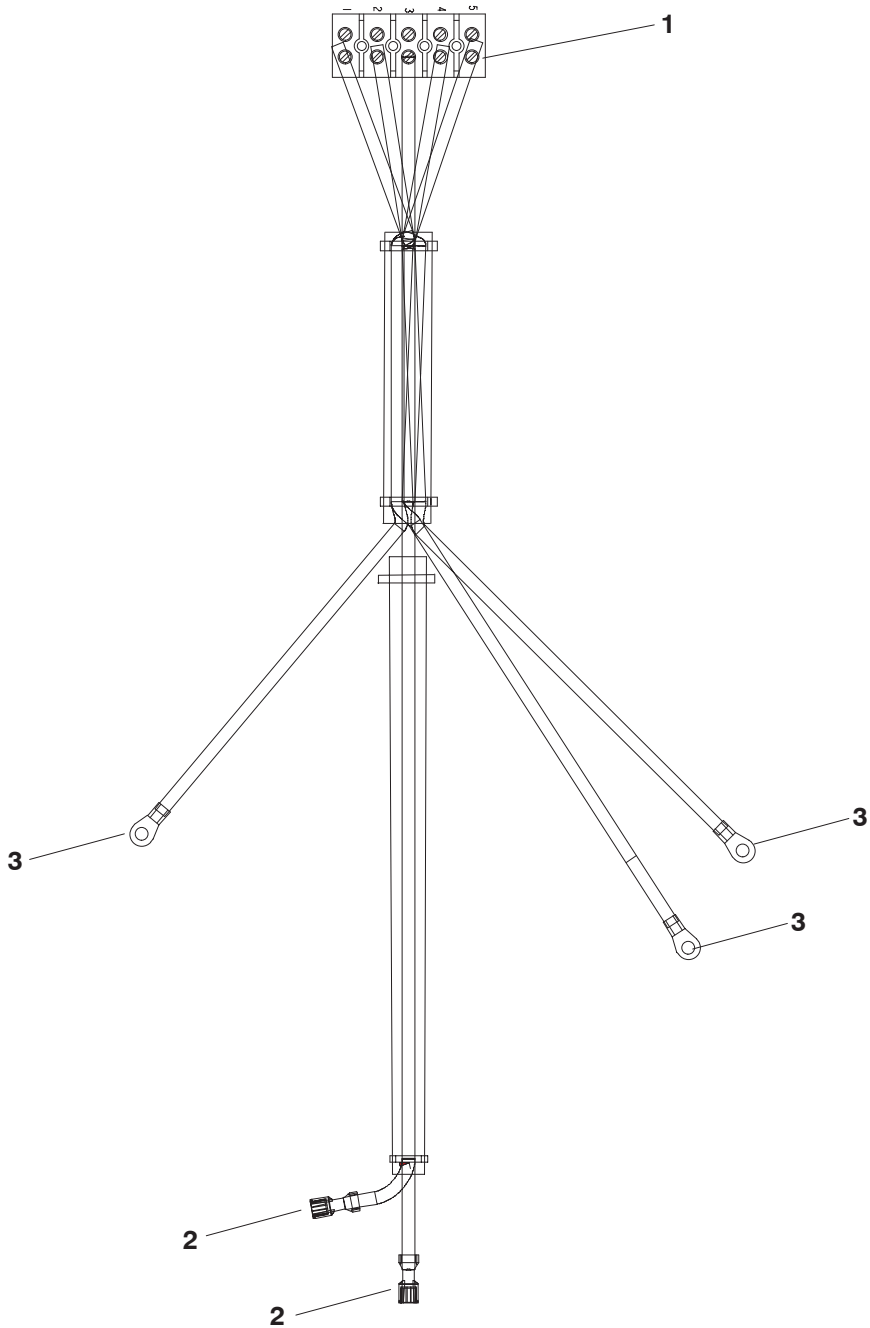
Control Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-4092-01	1	Harness, Control	6	308-1019	AR	Connector, Switch (P9)
1	323-1819-01	1	Plug, Connector (35Pin)(P1)	7	321-0307-09	1	Fuse, 30Amp
2	323-1719	1	Lock, Housing	8	321-0325	1	Holder, Fuse
3	323-1709	8	Terminal, Socket				
4	323-1711	1	Connector (10Pin)(P2)				
5	307-1886	1	Socket, Relay (K3)				

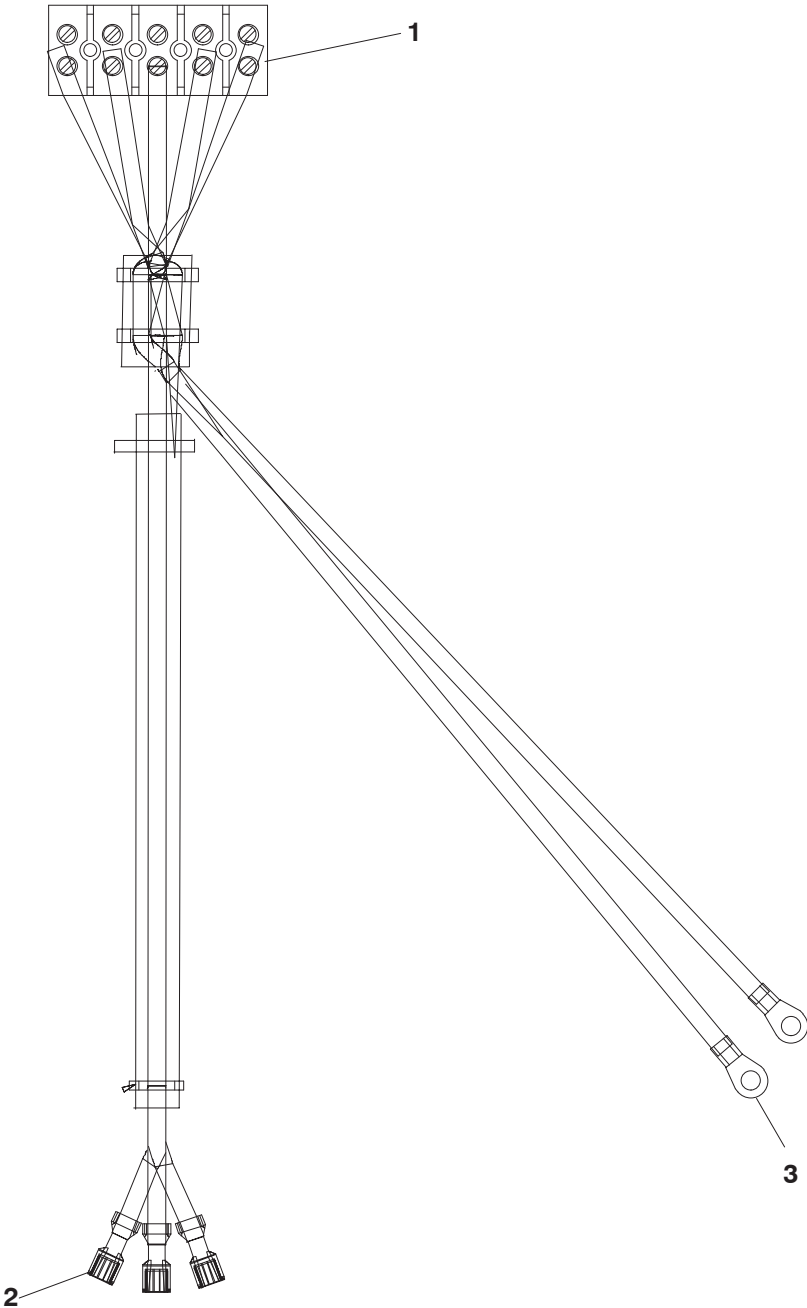
* See Control Page for location

AC Harness (Single Phase)



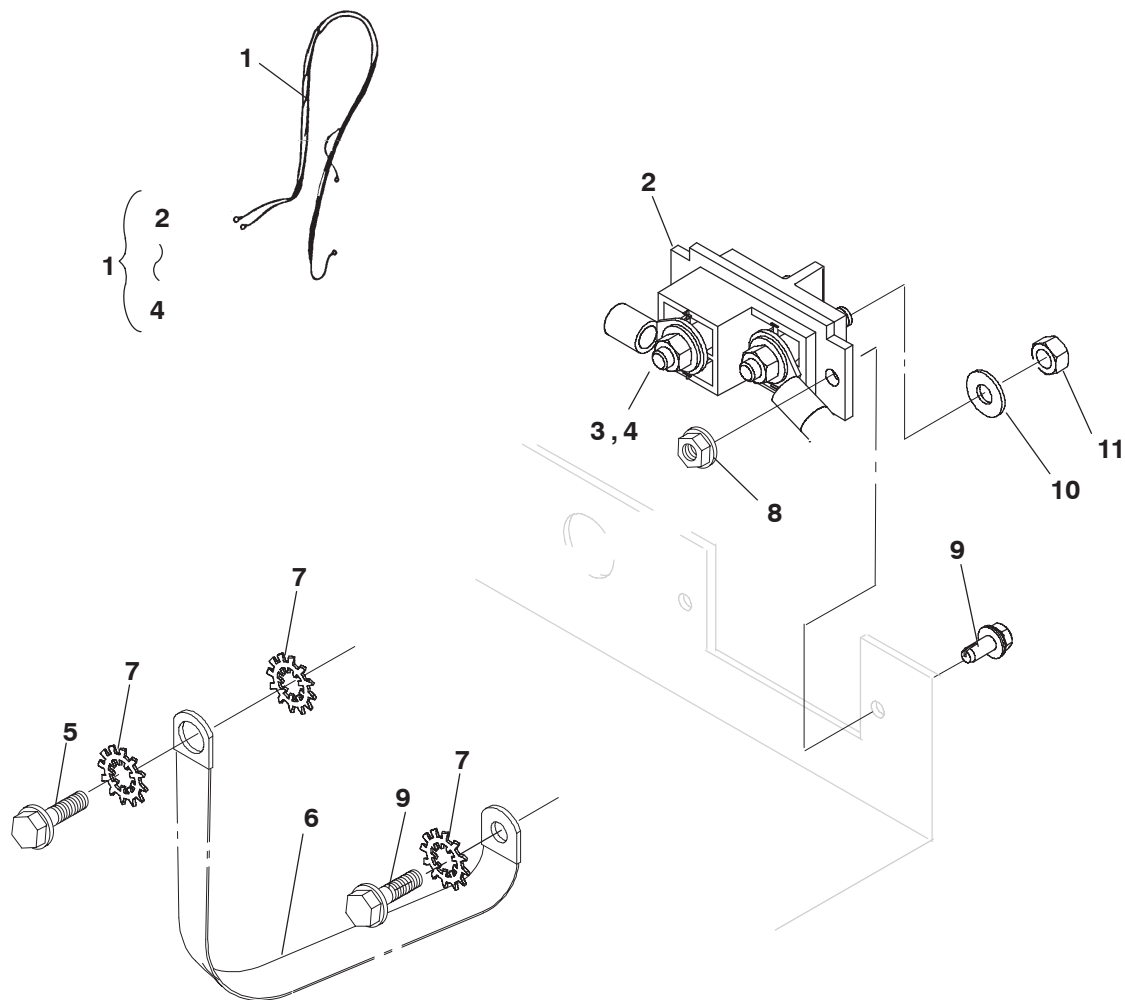
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-4183	1	AC, Harness	3	332-2944	3	Terminal, Ring (5/16") (Ground, Neutral and Neutral1)
1	332-3531-04	1	Terminal, Block (TB1)	* See Control Box Page for Location			
2	332-1995	2	Terminal, Receptacle (.25") (CB1 and CB2)				

AC Harness (Three Phase)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-4219	1	AC, Harness	3	332-0897	2	Terminal, Ring (1/2") (Ground, Neutral)
1	332-3531-04	1	Terminal, Block (TB1)	* See Control Box Page for Location			
2	332-2431	3	Terminal, Receptacle (.25") (CB1, CB2 and CB3)				

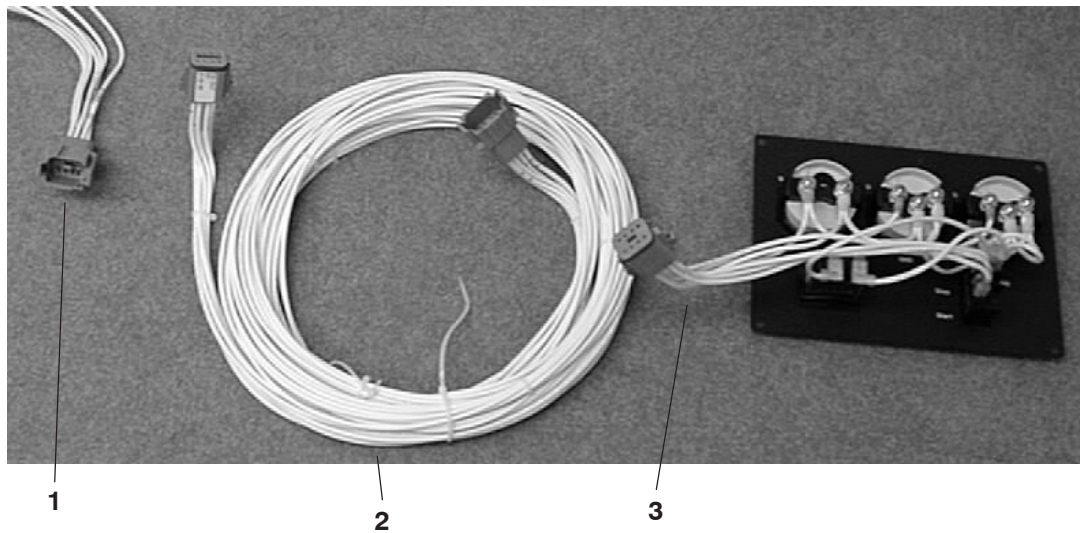
Battery Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4182-01	1	Harness, Battery (Includes Terminal Block, 2 Washers 2 Nuts, and Cables)
2	332-3408	1	Block, Terminal
3	526-0054	2	Washer, Flat (5/16")
4	871-0025	2	Nut, Hex (.313-18)
5	815-0941-03	1	Screw, Hex Washer Head Tread Form (M6 x 1 x 16mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	337-3467	1	Strap, Bond
7	856-0006	4	Washer, Lock ET (1/4")
8	870-2065-02	2	Nut, Hex Flange
9	821-2096-03	3	Screw, Locking Flange
10	526-0054	2	Washer, Flat (5/16")
11	871-0025	2	Nut, Hex Brass (5/16-18)

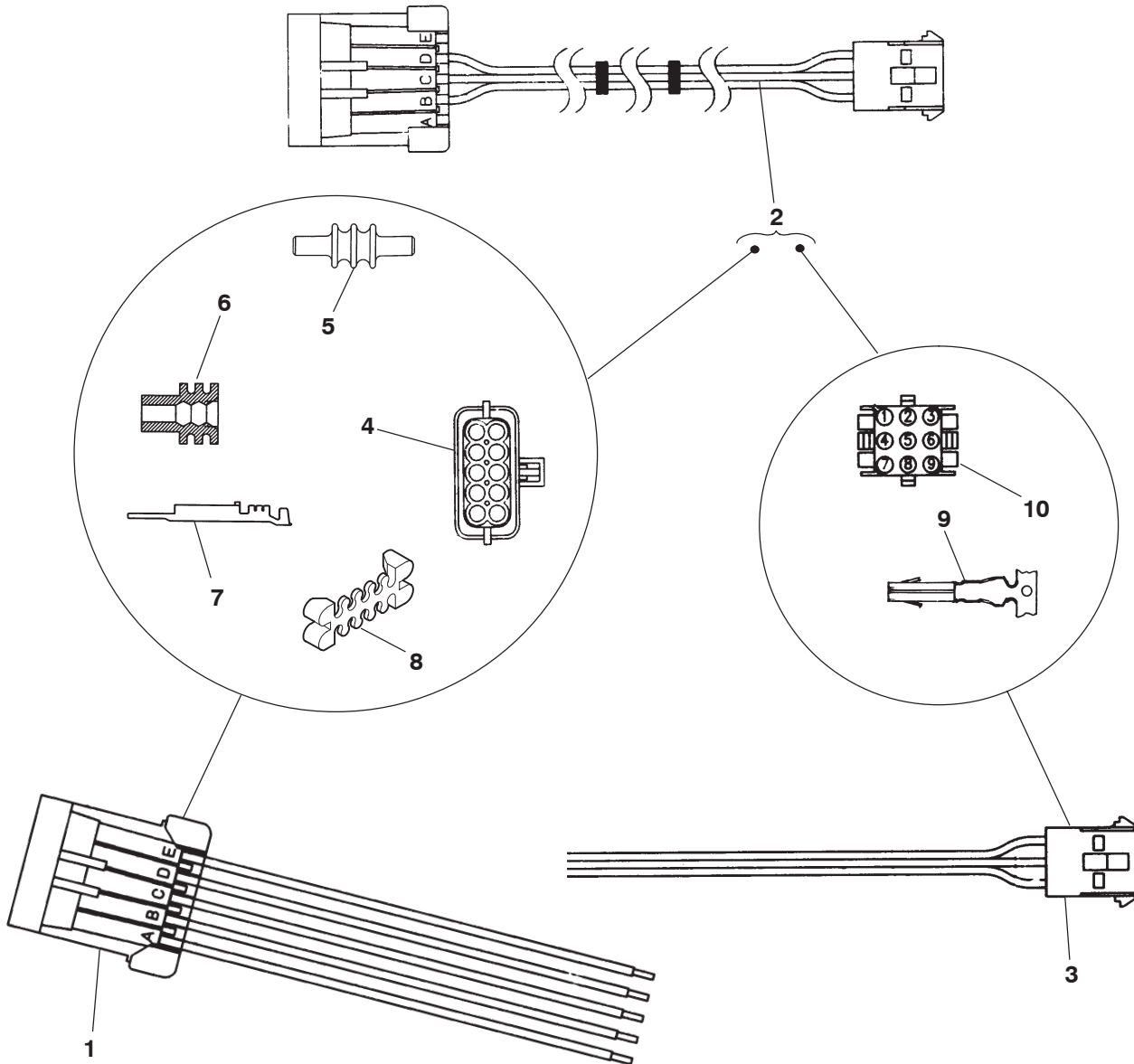
Harness Location



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	*	–	Harness, Control (Reaches From Generator Control to Extension or Customer Interface Pigtail Harness)
2	*	–	Harness, Extension (Or Customer Interface Pigtail/s) (Reaches From Control Harness to Remote Panel Harness or Customer Hookup)
3	*	–	Harness, Remote Panel (Reaches From Remote Panel to Extension Harness)

* – See Index for Page Numbers of Detailed Descriptions and Part Numbers.

Remote Harnesses



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-4947	1	Harness, Remote (Includes Parts Marked *)
2			Harness, Remote Panel (Includes Parts Marked +)
	338-3490-01	1	10'
	338-3490-02	1	30'
3	338-3573	1	Harness, Adapter (Includes Parts Marked #)
4	323-1710	1	+*Connector, Receptacle
5	323-1712	2	+*Plug, Cavity

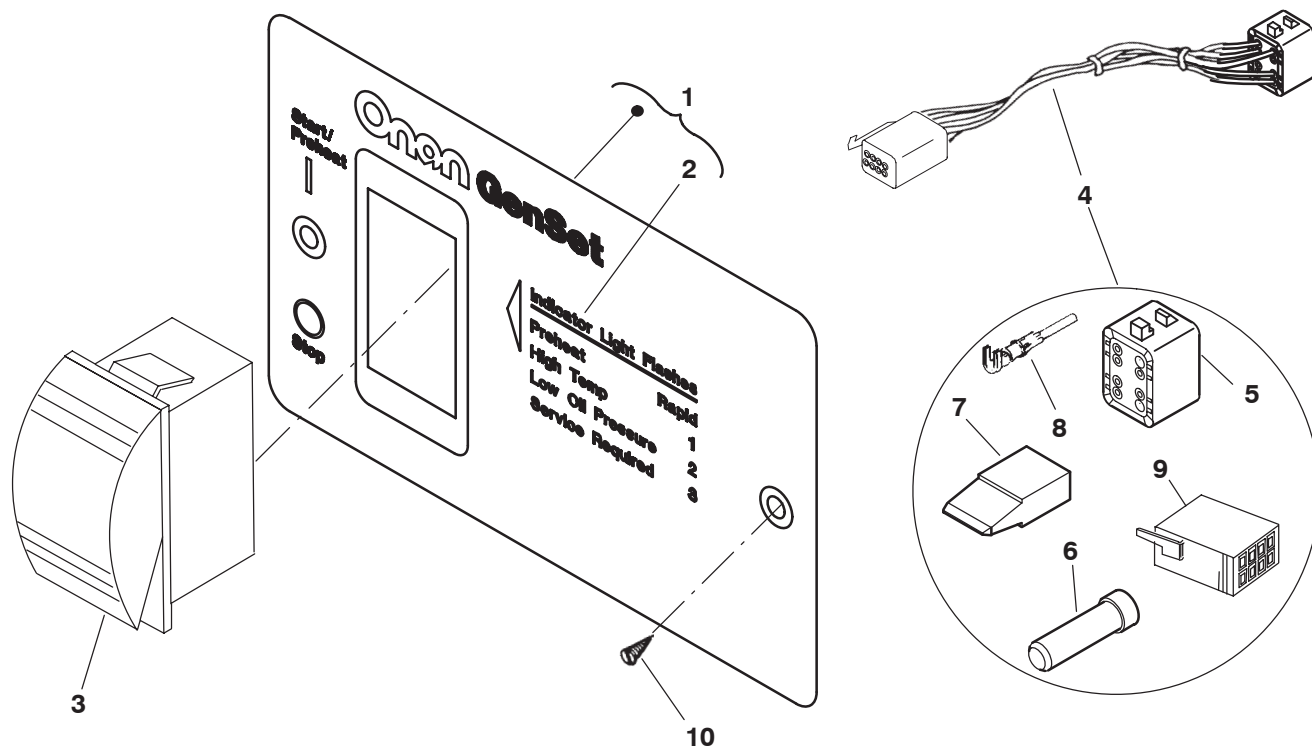
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	323-1708	8	+*Seal, Cable
7	323-1707	8	+*Pin, Contact
8	323-1719	1	+*Housing, Lock
9	323-1200	AR	+*Socket, Contact
10	323-1325	1	+*Cap, Connector*

* - Parts Included in Remote Harness.

+ - Parts Included in Remote Panel Harness.

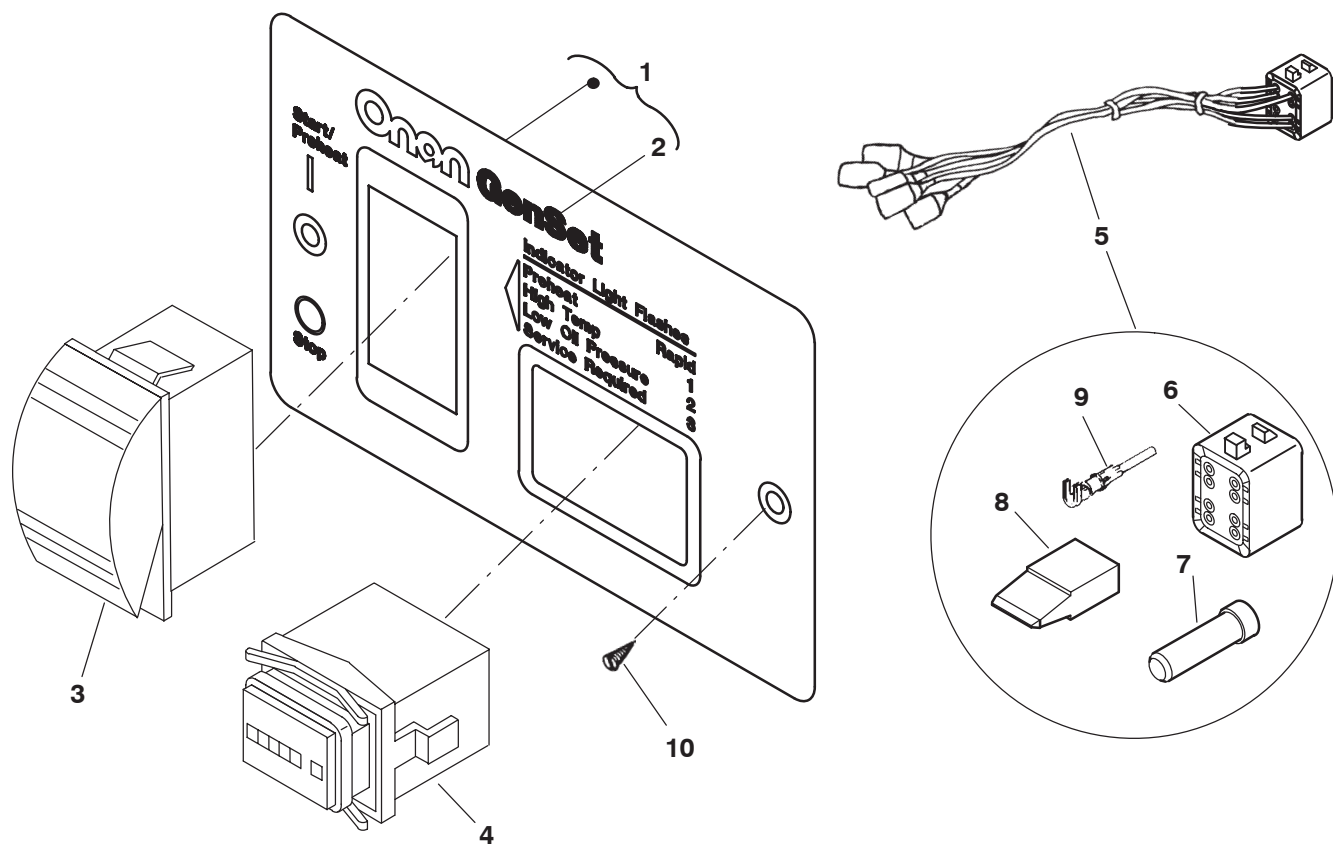
- Parts Included in Adapter Harness.

Remote Control Panel (W/Switch)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-5450-01	1	Kit, Remote Panel	5	323-1541	1	Plug (8 Pin) (J4)
1	319-4402	1	Panel, Remote (Includes Label)	6	323-1591	3	Plug, Connector
2	98-7839	1	Label, Panel (Start/Preheat)	7	323-1543	1	Wedge, Plug (8 Pin)
3	308-1101	1	Switch, Rocker (S11)	8	323-1492	6	Pin, Contact
4	338-3988	1	Harness, Remote Panel (Reaches From Extension Harness to Remote Panel) (Includes Plugs, Wedge and Pin)	9	308-1019	1	Connector, Switch
				10	815-0910	2	Screw, Wood (#6 x 1)

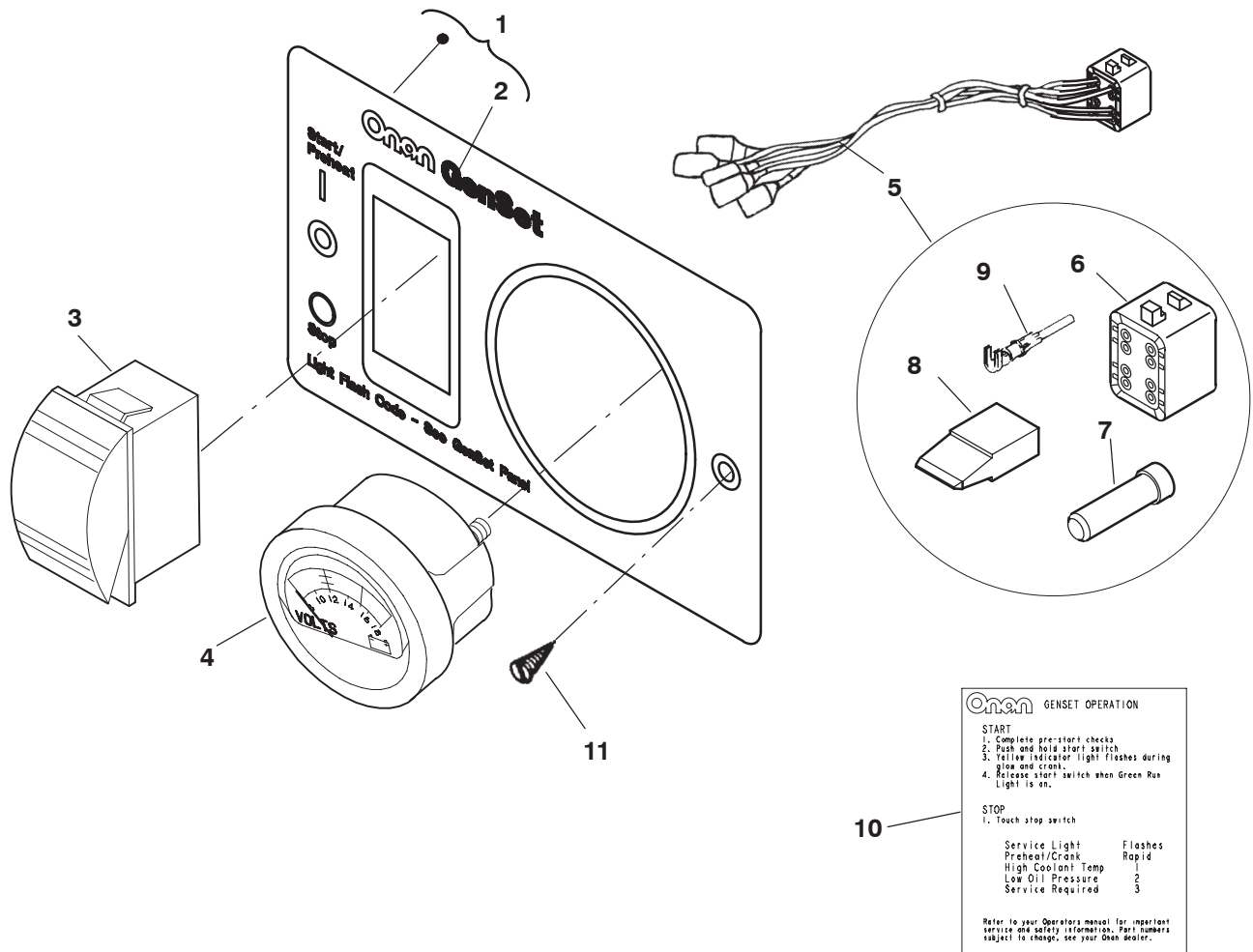
Remote Control Panel (W/Hour Meter)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-5452-01	1	Kit, Remote Panel
1	319-4400	1	Panel, Remote (Includes Label)
2	98-7837	1	Label, Panel (Start/Preheat)
3	308-1101	1	Switch, Rocker (S11)
4	302-2048	1	Hourmeter (M11)
5	338-3990	1	Harness, Remote Panel (Reaches From Extension Harness to Remote Panel) (Includes Plugs, Wedge and Pin)

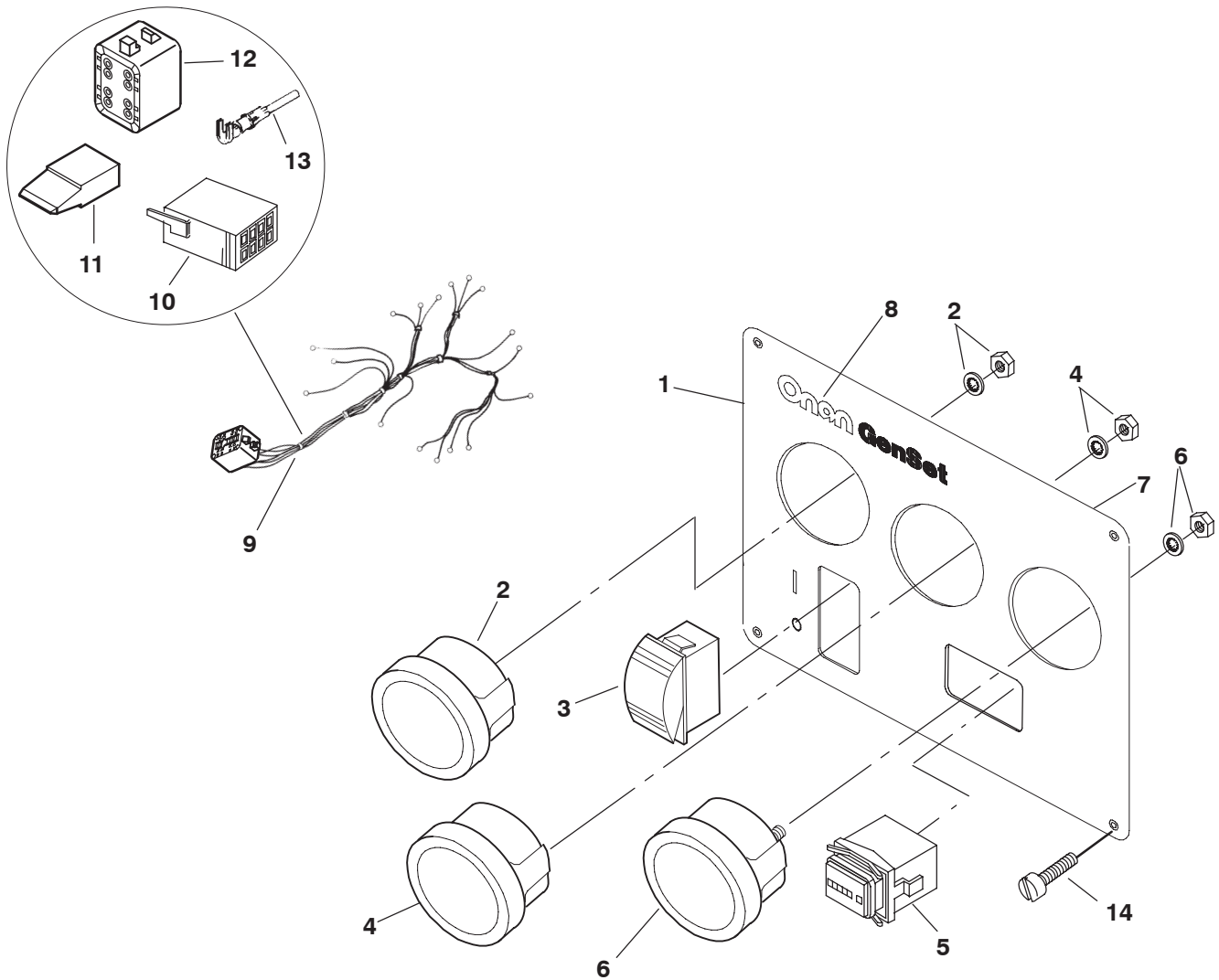
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	323-1541	1	Plug (8 Pin) (J4)
7	323-1591	2	Plug, Connector
8	323-1543	1	Wedge, Plug (8 Pin)
9	323-1492	6	Pin, Contact
10	815-0910	2	Screw, Wood (#6 x 1)

Remote Control Panel (W/Volt Meter)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-5451-01	1	Kit, Remote Panel	6	323-1541	1	Plug (8 Pin) (J4)
1	319-4401	1	Panel, Remote (Includes Label)	7	323-1591	2	Plug, Connector
2	98-7838	1	Label, Panel (Start/Preheat)	8	323-1543	1	Wedge, Plug (8 Pin)
3	308-1101	1	Switch, Rocker (S11)	9	323-1492	6	Pin, Contact
4	302-2051-01	1	Meter, Volt (M14) (8-18V)	10	98-7841	1	Label, Panel (Genset Operation)
5	338-3990	1	Harness, Remote Panel (Reaches From Extension Harness to Remote Panel) (Includes Plugs, Wedge and Pin)	11	815-0910	2	Screw, Wood (#6 x 1)

Remote Gauge Control Panel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-5453-01	1	Kit, Remote Gauge Panel
1	319-3254-02	1	Panel, Remote
2	302-2050	1	Gauge, Oil Pressure (M12) (Includes Mounting Bracket, M4 x .7 Nut, and M4 Washer)
3	308-1101	1	Switch, Rocker (SPDT) (S11)
4	302-2049	1	Gauge, Water Temperature (M13)
5	302-2048	1	Meter, Running Time (M11)
6	302-2051-01	1	Meter, Volt (M14) (8-18V)
7	98-7840	1	Label, Panel (M14, M13, M12)
8	98-7465-01	1	Label, Panel (Diesel GenSet)
9	338-3989	1	Harness, Remote Panel (Reaches From Extension Harness to Remote Panel) (Includes Parts Marked +)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	308-1019	1	+ Connector, Switch
11	323-1543	1	+ Wedge, Plug (8 Pin)
12	323-1541	1	+ Plug (8 Pin) (P4)
13	323-1492	8	+ Contact, Socket
14	800-0023	4	Screw, Pan Head Sheet Metal (#8 x .50)

+ - Parts Included in Remote Panel Harness.

Labels

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	543-0018-02	1	Label, Package (Includes Parts Marked *)		98-7998	1	*Label, Caution (Coolant)
	98-6476	1	*Label, Ground		98-7999	1	Label, Warning (Cover)
	98-6878	1	*Label, Fuel Attachment		98-8000	1	Label, Warning (Guard)
	98-7127	1	*Label, Warning Voltage		98-8014	1	*Label, Warning
	98-7128	2	*Label, Warning Multi		98-8001-03	1	Label, Information 50Hz and 60Hz Single Phase(Control)
	98-7994	1	*Label, Information (Coolant)		98-8001-04	1	Label, Information 60Hz Three Phase(Control)
	98-7906	1	*Label, Identified (Commercial Mobile)		98-8001-05	1	Label, Information 50Hz Three Phase(Control)
	98-7924-04	1	*Label, (CMQD 5000)				
	98-7924-05	1	*Label, (CMQD 5500)				
	98-7999	1	Label, Warning (Cover)				
	98-7996	1	*Label, Warning (Install)				

* Parts Included in Label Package.

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
098-6476, 55		130-5623, 32		184-0029, 7		185-2233, 5	
098-6878, 55		130-5624-02, 32		184-0030, 6		185-2234, 5	
098-7127, 55		130-5632-02, 34		184-0031, 6		185-2238, 30	
098-7128, 55		130-5699-02, 38		184-0032, 6		185-2284, 11 , 13 , 15 , 17	
098-7465-01, 54		134-5282-02, 29		184-0033, 6		185-2338, 17	
098-7837, 52		140-2898, 29		184-0034, 6		185-2351, 10	
098-7838, 53		140-3351, 29		184-0035, 11		185-2353, 6 , 26	
098-7839, 51		140-3377, 29		184-0038, 30		185-2357, 26	
098-7840, 54		140-3378-02, 29		184-0039, 37		185-2362, 39	
098-7841, 53		140-3445, 29		184-0040, 7		185-2376, 10	
098-7906, 55		140-3471, 29		184-0041, 11		185-2380, 10 , 15 , 19	
098-7924-04, 55		149-2513, 27		184-0042, 11		185-2385, 11	
098-7924-05, 55		149-2580-02, 27		184-0043, 14		185-2386, 7 , 10 , 26	
098-7994, 55		149-2667-02, 27		184-0045, 5		185-2387, 7	
098-7996, 55		149-2692, 27		184-0046, 6		185-2388, 5 , 30	
098-7998, 55		150-2630, 18		184-0049, 26		185-2389, 14 , 28 , 37	
098-7999, 55		150-2639, 18		184-0052, 16		185-2393, 16	
098-8000, 55		150-2641, 18		184-0053, 15		185-2397, 14	
098-8001-03, 55		150-2643, 18		184-0054, 16		185-2398, 14	
098-8001-04, 55		150-2724, 18		184-0055, 15		185-2399, 9	
098-8001-05, 55		154-2800, 40		184-0056, 15		185-2411, 9	
098-8014, 55		154-3119, 40		184-0057, 15		185-2414, 9	
100-3603, 5		155-3476, 40		184-0059, 15		185-2559, 8 , 31	
101-0826-02, 23		155-3730-02, 40		184-0060, 15		185-2572, 35	
102-1480, 37		155-4060, 40		184-0062, 11		185-2583, 26	
102-1485, 37		184-0011, 37		184-0063, 30		185-4255, 10	
104-1861, 23		184-0013, 15		184-0064, 30		185-5335, 28	
104-1967-01, 23		184-0014, 5		184-0065, 13		185-5337, 11	
123-2226, 36		184-0015, 14		185-2016, 6		185-5342, 15	
123-2227, 36		184-0017, 15		185-2033, 6		185-5348, 10	
123-2234, 36		184-0019, 15		185-2094, 5		185-5356, 6	
130-4320, 33		184-0021, 6		185-2095, 5 , 9		185-5357, 6	
130-4321, 33		184-0022, 8		185-2115, 5		185-5358, 6	
130-5437, 32		184-0023, 5		185-2124, 14		185-5360, 6	
130-5461-02, 32		184-0024, 9		185-2163, 26		185-5361, 6	
130-5462-02, 32		184-0025, 9		185-2173, 16		185-5363, 12	
130-5478, 32		184-0027, 8		185-2180, 17		185-5364, 12	
130-5499, 32		184-0028, 7		185-2188, 5 , 9		185-5365, 12	

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
185-5366, 12		185-5404, 12		185-5515, 8		185-5571, 6	
185-5367, 12		185-5405, 12		185-5516, 8		185-5572, 6	
185-5368, 12		185-5406, 12		185-5517, 8		185-5573, 6	
185-5369, 12		185-5407, 13		185-5519, 8		185-5575, 6	
185-5370, 12		185-5410, 14		185-5521, 13		185-5576, 6	
185-5371, 12		185-5412, 5		185-5522, 13		185-5577, 6	
185-5372, 12		185-5413, 5		185-5523, 13		185-5578, 6	
185-5373, 12		185-5414, 5		185-5524, 13		185-5579, 6	
185-5374, 12		185-5415, 5		185-5527, 13		185-5580, 6	
185-5375, 12		185-5416, 5		185-5528, 13		185-5581, 6	
185-5376, 12		185-5421, 11		185-5529, 13		185-5583, 6	
185-5377, 12		185-5422, 19 , 21		185-5531, 28		185-5587, 23	
185-5378, 12		185-5433, 31		185-5533, 39		185-5612, 11	
185-5379, 12		185-5434, 31		185-5534, 39		185-5613, 11	
185-5380, 12		185-5437, 8		185-5535, 39		185-5614, 11	
185-5381, 12		185-5438, 8		185-5536, 39		185-5615, 11	
185-5382, 12		185-5458, 30		185-5537, 10		185-5616, 12	
185-5383, 12		185-5482, 5		185-5538, 10		185-5617, 12	
185-5384, 12		185-5483, 5		185-5539, 10		185-5618, 12	
185-5385, 12		185-5484, 5		185-5540, 10		185-5619, 12	
185-5386, 12		185-5485, 5		185-5541, 10		185-5621, 12	
185-5387, 12		185-5486, 5		185-5546, 10		185-5622, 12	
185-5388, 12		185-5487, 5		185-5547, 10		185-5623, 19	
185-5389, 12		185-5488, 5		185-5550, 10		185-5624, 19	
185-5390, 12		185-5489, 26		185-5551, 10		185-5625, 19	
185-5391, 12		185-5491, 5		185-5552, 10		185-5626, 19	
185-5392, 12		185-5492, 5		185-5553, 10		185-5628, 26	
185-5393, 12		185-5500, 9		185-5554, 7		185-5629, 26	
185-5394, 12		185-5501, 9		185-5558, 7		185-5630, 26	
185-5395, 12		185-5502, 9		185-5560, 7		185-5631, 26	
185-5396, 12		185-5503, 9		185-5561, 7		185-5632, 26	
185-5397, 12		185-5505, 14		185-5562, 7		185-5633, 26	
185-5398, 12		185-5506, 14		185-5563, 7		185-5634, 26	
185-5399, 12		185-5507, 14		185-5564, 7		185-5635, 26	
185-5400, 12		185-5508, 14		185-5565, 7		185-5638, 21	
185-5401, 12		185-5509, 14		185-5568, 6		185-5639, 21	
185-5402, 12		185-5510, 14		185-5569, 6		185-5640, 21	
185-5403, 12		185-5511, 14		185-5570, 6		185-5641, 21	

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
185-5642, 21		185-5714, 31		185-7395, 10		302-2048, 43 , 52 , 54	
185-5643, 21		185-5715, 31		185-7407, 6		302-2049, 54	
185-5644, 21		185-5716, 31		185-7426, 13		302-2050, 54	
185-5645, 21		185-5717, 31		185-7444, 14		302-2051-01, 53 , 54	
185-5646, 21		185-5719, 30		190-0757, 23		305-0995, 43	
185-5647, 21		185-5723, 30		191-2229, 24 , 25		305-0998-02, 43	
185-5648, 21		185-5747, 13		191-2239, 25		307-1886, 44 , 45	
185-5649, 21		185-5793, 10		191-2240, 25		308-1019, 45 , 51 , 54	
185-5650, 21		185-5798, 5		191-2241, 25		308-1038, 43	
185-5651, 21		185-5826, 30		191-2245, 25		308-1101, 51 , 52 , 53 , 54	
185-5652, 21		185-5833, 28		191-2246, 25		315-0856, 44	
185-5653, 21		185-5966, 16		191-2247, 25		315-0882, 44	
185-5654, 21		185-6105, 8		191-2250, 25		319-3254-02, 54	
185-5655, 21		185-6677, 30		191-2251, 25		319-4400, 52	
185-5656, 21		185-6735, 19		191-2252, 25		319-4401, 53	
185-5657, 21		185-6736, 19		191-2253, 25		319-4402, 51	
185-5658, 21		185-6737, 19		191-2254, 25		319-4511-02, 44	
185-5659, 21		185-6738, 11 , 12		191-2255, 25		319-4987, 32	
185-5660, 21		185-6822, 35		191-2282, 43		320-1548-03, 43	
185-5661, 21		185-6825, 12		193-0318, 9		320-1649-03, 43	
185-5662, 21		185-6851, 39		193-0491, 9		320-1649-06, 43	
185-5663, 21		185-6853, 40		201-3598-03, 42		320-2101-02, 43	
185-5679, 17		185-6919, 5		201-3607-03, 42		321-0307-09, 45	
185-5680, 17		185-6931, 17		205-0289, 42		321-0325, 45	
185-5681, 17		185-6981, 13		205-0300, 42		323-1200, 50	
185-5682, 17		185-6999, 16		211-0521, 42		323-1325, 50	
185-5683, 17		185-7069, 14		212-1303, 42		323-1492, 51 , 52 , 53 , 54	
185-5684, 17		185-7075, 7		220-4620-01, 42		323-1541, 51 , 52 , 53 , 54	
185-5693, 15		185-7079, 16		220-4620-02, 42		323-1543, 51 , 52 , 53 , 54	
185-5696, 15 , 16		185-7082, 11		220-4620-03, 42		323-1591, 51 , 52 , 53	
185-5698, 16		185-7086, 10		220-4621-01, 42		323-1707, 50	
185-5701, 16		185-7208, 30		220-4621-02, 42		323-1708, 50	
185-5702, 16		185-7267, 15		232-4111, 23		323-1709, 45	
185-5703, 16		185-7382, 14		300-4947, 50		323-1710, 50	
185-5707, 35		185-7383, 8		300-5450-01, 51		323-1711, 45	
185-5709, 35		185-7385, 7		300-5451-01, 53		323-1712, 50	
185-5712, 31		185-7393, 30		300-5452-01, 52		323-1719, 45 , 50	
185-5713, 31		185-7394, 10		300-5453-01, 54		323-1819-01, 45	

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
327-1279, 44		405-7328, 41		518-0548-05, 33		815-0927-01, 42	
332-0897, 47		405-7568, 41		518-0672, 18		815-0941-03, 48	
332-1356, 42		405-7659-02, 41		526-0017, 23 , 42		815-0943-02, 44	
332-1389, 32 , 33		405-7660-02, 41		526-0018, 33		821-2034, 43	
332-1995, 46		501-0804, 27		526-0030, 38		821-2096-02, 27 , 32 , 36	
332-2431, 47		502-1168, 37		526-0045, 23		, 38 , 40 , 41 , 43 , 44	
332-2634, 27 , 37		502-1180, 37		526-0049, 9		821-2096-03, 48	
332-2944, 46		502-1224, 27		526-0054, 48		821-6003-01, 38	
332-3408, 48		502-1296-02, 27		526-0115, 37		850-2008, 24	
332-3531-04, 46 , 47		502-1359, 5		526-0324, 38		851-0045, 23	
337-3467, 48		502-1360, 5		526-2080, 29		854-0028, 27	
338-3490-01, 50		502-1367-01, 27		526-2081, 36		856-0006, 23 , 48	
338-3490-02, 50		503-0398, 29		526-2083, 42		860-2008, 24	
338-3573, 50		503-0429, 29		526-2100, 23		865-0030, 29	
338-3988, 51		503-0685, 33		526-2120, 23 , 38		868-0007, 27	
338-3989, 54		503-1951-12, 27		541-0953, 40		870-0257, 27	
338-3990, 52 , 53		503-1951-13, 27		543-0018-02, 55		870-0557, 40	
338-4092-01, 45		503-1951-35, 33		725-1027, 36		870-2065-02, 23 , 29 , 32	
338-4182-01, 48		503-1951-40, 33		740-1002, 18		, 40 , 41 , 48	
338-4183, 46		503-1951-46, 33		800-0023, 54		871-0010, 9	
338-4219, 47		503-2052-01, 27		800-2033, 23		871-0025, 48	
363-0205, 43		503-2311, 29		800-2043, 29			
402-0687-01, 40 , 41		503-2312, 33		800-2052, 37			
402-0695-02, 40 , 41		503-2313, 33		800-2057, 23			
402-0728-01, 38		503-2343-02, 33		800-2091, 42			
403-4546-02, 23		503-2343-04, 33		800-2093, 23			
403-4561-02, 38		503-2398-02, 35		800-3006, 38			
403-4565-02, 38		503-2407, 37		800-6296-01, 23 , 42			
403-4605, 38		504-0206, 37		800-6298, 29			
403-4635-04, 38		508-1167, 42		812-0070, 43			
405-5309-03, 43		509-0196, 23 , 42		815-0549-01, 43			
405-5380-05, 43		510-0184, 18		815-0657, 23			
405-6833-02, 41		510-0202-02, 23		815-0753, 42			
405-6834-01, 43		511-0187, 35		815-0781, 24			
405-6835-02, 41		511-0196, 23		815-0829-04, 33 , 38			
405-6836-02, 41		512-0205-01, 23		815-0842-09, 38			
405-7215, 43		512-0217, 23		815-0877, 18			
405-7323-02, 43		512-0248, 23		815-0910, 51 , 52 , 53			



Cummins Power Generation
1400 73rd Avenue N.E.
Minneapolis, MN 55432
1-800-888-6626
763-574-5000 International Use
Fax: 763-574-8087

Cummins and Onan are registered trademarks of Cummins Inc.